

-Apple's Steve Johs takes some jahs at Microsoft over Windows Vieta BARE IN

# Philly Officials Try to Revive

City. Oracle negotiate over future of apps rollout after delays, cost overruns

After three years and a higherthen expected investment of \$10 million the city of Philadelphia has not to deploy a new billing system for its halfmillion water customers and is now working with lead wonder Oracle Corp. to try to revive

The billing porters code-named Project Ocean was designed to replace a 30-yearold custom-built application that relies on munch cards and doesn't collect all the revenue it

should according to city officials and municipal records. The new system was supposed to take just

one year to implement, but the city halted work on Project Ocean last October after having spent more than twice as much money as it initially expected to.

The effort has stumbled because of technical complexity. Oracle's inexperience at building such a system and the

denartures of several project managers and executive sponsors who were overseeing the rollout according to Philadelwhish CIO Disnoh Neff She also now plans to leave her job and said that she doesn't expect the

necotiations with Oracle to be comnieted before her scheduled less day on Sept. 8. Neff who has pushed the development of a municipal

Wi-Fi network in Philadelphia, is taking a consultine lob focused on Wi-Fi in another city. She said that Project Ocean will

remain on hold until officials from the Mayor's Office of Information Services and other Philadelphia, page 45 The nonprofit After some blanders. takes a businesslike approach to IT.

Volkswagen of America gets back on track with IT governance. PAGE 33



# Gen 2 Tags Boost RFID, **But Uncertainties Linger** Farly users cite accuracy and price

systems suffered from disar

pointing read rates and a lack

of universal standards. So it's

not surprising that adoption

of so-called RFID Genera-

tion 2 technology has

gains: maturity and value still at issue

---Proponents of radio frequency identification technology have a lot riding on the success of a new generation of systems now being deployed. Although their initial findings look promising in terms of accuracy, cost and compatibility. questions remain among some users about RFID's maturity and business value. Many first-seneration RFID maick shift to Gen 2. According to users who have some live with Gen 2 taes. the improvement in read-rate

accuracy that they provide over first-peneration RFID technology is significant. How ever, they noted that Gen 2 is still new and that there are limits to its ownest canabili. ries as well as questions about how to apply the technology to husiness problems

Still, Gen 2 adoption is progressing quickly. Wal. Mort has so far this commer moved all but two of its approximately 300 RFIDenabled suppliers to the technology, ac-Gen 2 RFID, page 16

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officials

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billing system. Municipal billing

systems tend to

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been relatively swift. SUCCESS SIGNAL Mandates to suppliers from heavy weight users such as Wal-Mart Stores Inc. and the U.S. Department of Defense have also spurred the

IBM.

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#### THERASTRICTURE LOG

\_DAY 33: Our information is out of control. It's siloed. It's urmanageable. People con't access the latest information to make decisions. Gil's had enough. He's decided to give everyone access to everything all at once.

\_Monitars now outnumber humans 18 ta 1.

DAY 36: It's clear to me now. We need an IBM Information On Demand middlewore solution. Information will be Liberated from the silas — ovailable when we need it, whatever the format. It will be accurate and in context. Since it's based on open standards and a service a criented architecture, we can handle whatever the future brings. Now we can make swarter decisions and deliver real business value.

Access is a beautiful thing.

See innovative IBM Into Management solutions in action: IBM.COM/TAKEBACKCONTROL/INFO



6 Sphese is bundling its data integration software into a suite. Plus, a O&A with John Chen, the company's CEO.

8 MM's support for turning main-frame processing capacity on and off as pended is a major reason why some corporate users are staying with its System 29 hardware.

The plasmed beyout of McDuta by storage switch rival Brocade Communications Systems is raining concerns among some IT managers toat the products they

2 Global Dispatches: Telstra, Aus-tralia's largest telecommunications wendor, said it is scrapping plans for a national high-speed broadband network after reaching an impasse with regulators on charging rival vendors for access.

use will be phased out.

12 Publisher Simon & Schooler Eturned to a data aggregation tool to improve response times to business intelligence queries.

16 flet has integrated content and digital rights management software to give companies more control over data, even when it's sent beyond their firewalls

18 Ohio University has fired two IT managers, saving they should have done more to prevent data breaches. But the fired workers claim their dismissals are unfair.

18 The Voterans Affairs depart-ment announced that sub-contractor Unisys can't find a PC with the personal data of 38,000 veterans, prompting more calls for the VA's secretary to resign.

TECHNOLOGY

#### 28 Gook's Gardon. This week's landscass bish lights sound-up ngms souped-up

another father

of calculating

machines

tweezers and yet

30 Security Manager's Journal: But Anny From R. After a stressful war a vacation would seem to be in order. So why would C 1 Kelly want to become her state's chief

# information security officer? MANAGEMENT

22 Changing Lanes. The newly revamped Volkswagen of America has no pure IT projects or traditional IT staff Instead there is a finely tuned set of processes for rejoritizing executing and measuring technologyenabled business projects that help the company sell more cars.

30 Tassing IT at the World Wildling injection of for-profit rigor into the organizational culture of the nonprofit World Wildlife Fund has boosted the IT group's performance and enhanced its reputation.

40 Booting Institutional Institu sonal tales of how they overcame organizational resistance to costcutting projects.

RFID Success Signals
In the Technology section: Deployments of radio frequency identification to be also are increasing as the cost of two decrees. For now PEID is finding a place among shippers and retailers, and there are signs that the technology may facily live up to its hope Been 24

# OPINIONS

10 On the Mark: Mark Hall reports developer conference to paint Mirroroft's Vista as an operating system built by conving features and technologies that were devel-

and by his company and Cocele 20 Don Tournant is wincing with hose in an earlier editorial characterizing the corporate culture of Intel as oblivious to what's needed to make the world a better place

20 Bruse A. Stewart urges IT sware of the messages they may not realize they're sending.

21 Thornton A. May wonders whether banking will come out of its boring period and start innovating with IT again.

31 Cart A. Monash has some adtechnology architecture 41 Bart Portine offers tips on fac-

46 Frankly Speaking: Frank Hayes Says Veterans Affairs Secretary lames Nicholson should ask Concress whether it wants security problems buried or exposed to the light of day.

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Charle Took	

So, What's Wrong With Being an Introvert?

vvul Being an Introver?
Columnist Ira Winkler responds to Don
Tennant's editorial "Stigmon by Stereotype."
The stereotype of I'l professionals is true
accept it and deal with it, he argues.
O www.computer.morti.com/usersby

Post your comments at Eight Pre-vacation To-Do's

RAR, he sure to follow these vital steps. advises Brad Shoop, network analyst at Erlanger Health System.

Wity IT Staffers Will Like Apple's Plans MARITURE Whether it's the speedy new Xerve due out in October or updated appl cations in the near version of Mac 05 X, IT staffers have reason to pry strention to what Apple Computer is doing, says columnist Ryan Fass.

Questions to Answer Before Buying E-mail Archiving STRAME: Columnist Jim Damoulakis outlines a dozen issues to consider b

What You Should Know Voort Pro-employment the If you're in the dark ab

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welster Subscriptions	angeloranti anglesadatus
owledge Centers	oppose and analysis
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DAY 17: If see a better way: IBM Tivoti middleware. It gives us a holistic view of the infrastructure and analyzes the relationship between apps, systems and networks. Fixes problems proactively for more uptime and more storage availability. Plus, it's open, modifier and sociable.

Gil says he saw all that two but forgot to tell us.



OOT Benerits Theft Of Lanton in Florida b. Department of Iransnining the names, ad-----

erna regiones was stole en a cer in Doral, Fla., en July 27 The inner a sold it is tak that on other portable d entain personal data and ing the one of lasters

# on IT Half Formed

setts CIO Louis Outi ar said Friday that the state's (T nes are control a sh

## DOLI Soules Info on on Storage

venders "to id

# Cisco Buys Control Of Data Center Firm

Cleco Systems Inc. said it has inc., a start up in Se

# AT DEADLINE Sybase Joins Data Integration Tussle

New offering to compete with IRM Informatica

YRASE INC. is entherine gration products intetouting the bundle for one with ite own databases as mall as

ones from rival vendoes The Dublin Calif-based romnany last week officially announced the Subsec Date Integration Suite at its Tech-Wave 2006 user conference here. The suite, which will initially comprise existing products that perform data replication, data federation. real-time event messaging and data counts will be released in the fourth quarter, said Kath-

leen Schaub, vice president of Sybase's IT solutions group She said the products will be integrated 35 ways — "some superficial, some quite deep" - and feature common tools

and user interfaces. "It's a good most on St. base's part," said loe Buhl, a

senior database administrator at Wire One Communications Inc. The King of Prussia Pa based andio, and videoconfee. encing service provider has used Subase's Adaptive Server Enterprise (ASE) on Solutio 0 servers as its main database since 2000, with Replication Server 12.6 for disaster reco ery Buld said Wire One is

considering a proof-of-concept test with the suite's real-time messaging product to connect with its IBoss-based IMS messaging system.

"Some of their products, as with any company, don't make sense for us." Buhl said. "But ASF and Replication Server have been really, really solid software products for us."

Natexis Bleichroeder Inc., a New York-based subsidiary of Banque Populaire Group, uses Replication Server's warmstandby feature to keep its backup Sybase database "in

near-real-time sync\* with the active production one while active production one, while to do reporting and load balancing according to I could Shteyngardt, vice president of data operations

this agreed announce for un even though we don't use all of its feetures " he said Natexis also uses the realtime data services product to keep the various systems that need to track stock trades sun-

chronized in real time "Rather than having new erese rull data in a batch environment, our database is now an action place that can initiate a conversation, not just store data," Shteyngardt said. That also allows Natexis to send immediate alerts to su-

pervisors if a trader ones over his trading limit or otherwise ----and of the day the head trader or composes sick monopose needs to on to hed knowing be has no headaches " he said Replication Server is the most popular component of the suits with expend there

> according to School She soknowledged that many cornorations aren't looking for the entire suite of features wet. "In the next year or two. most data integration project will continue to be individual ones \* Schund and \*But users can buy one component today. and as their needs rise they can add other parts.\* Extract transform and

sand existing customers

chase of Solonde AG in Hombury Germany will be smile ourg, Germany, will be ava Inte in 2007 School said That will not Subsection competition with companies such as IRM. which hought Arountial Software Corn, last war, and, most directly Informatica Corn which offers the PowerCenter line of products. But Sybase said its software

acquired through its lune our

is comprehensive as well as essier and chemer to set un than competing offerings "No one else has brought out a suite per se. IBM is prohably the farthest alone — they have a number of apps - but their approach is more servicespend\* School said &

IRM

THERASTRUCTURE LOG

DMY 12: No one can get mod-time presents. No ore can collaborate, Unwanged public BY is a scentrify nightnesse. Golf brought in a "Collaboration accelerator." It said it thods like a carean, Ne soid I'had a small mind. DMY 14: The carear-Tille Indus' Smaller 7-5. It's not just by and the conferencing, it's an offordale platform for neutral the batters in not like. It's mod produce for neutral the batters in net time. It's moderate the conferencing, it's an offordale moderate for neutral the batters in next time. It's moderate for neutral new 15 and 15 and

We've more recovered most of our amployees

Download the Lotus Sametime 7.5 demo at: IBM.COM/TAKEBACKCONTROL/SAMETIME

## RRIFFS

#### Microsoft, DHS Urge Fast Action on Flaw Microphitory, Land 12 sector from products, nine of them rated

rity updates for Windows and Office products, nine of them rated as critical. But the company said users should give priority to a fix for the Server Service technology in Windows because attackers have already started exploiting that vulnerability. The

5. Department of Hemeland scurity issued a warning schog Microsoft's advice, saying at exploits of the flam "could spact government systems, from industry and critical

SCorn CEO Resigns
After Seven Months
South Marry has resigned as
president and CEO of SCorn Cery,
after past seven meetins on the
job. The Marrhers, Mans, shand
networking equipment vander
and Marry decided that he was
apanding too much time in Chine
managing Scorn, just wenture
with Housest Technologies Co.

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of operating effore at Reditio
of mainframe services as
genering, said to species year
on-demand arrangemen
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be to buy all the process
or demand process of the cold to support the Si

Clace Systems Inc. reported a 27% year-to-year jump in revenu for its fourth quarter, partly as a result of 5592 million in sales from its acquisition of Scientific-Attents Inc. But Clace said its profit for the quarter, which ends able 28, was flat because of on-



# Short Takes

SPINIT NAMES
SPRINT NEXTEL CORP, said it will rell set a high-spead mobile naturals based on William technology in the fourth quarter...
LENOYO GROUP LTD, released its farst ThinkCostre PCs that are based on processors from

# Capacity on Demand Retains Mainframe Users

IT execs say the ability to turn CPUs on and off can reduce computing costs

PATRIOR THIBODEAU

OR THE Charles
Schwab Corp., the on/
off processing capacity that IBM offers on
its System 29 mainframes has
become a key factor in keeping
the financial services firm on

that hardware platform.
Other mainframe users are also adopting IBM's capacity-on-demand feature, but their reasons for doing so vary widely. And some analysts cautioned that the savings promisted by the capacity-on-demand approach can wary, depending nearth on the deals the capacity of the deals the capacity of th

depleaming porty over.

that IT managers negociate.

Earlier this year, Schwab
starred using an out-off nechanism to increase and decrease
is maintrance conventing
to maintrance conventing
to maintrance evolves and open
to maintrance services and engineering, said the capacity
on-demand arrangement is
less expensive than it would he to buy all the monessors.

he to buy all the processors needed to support the San Francisco-based brokerage's peak workloads.
Schwab upgraded to two System of Sanchines last December. Each has is processors, and up to six of them can be turned on when demand for processing power spikes. Lamb said that Schwab's deal with IBM was tructured an other to the sanchine should have used to be supported to the sanchine should be supported to the sanchine sho

capacity in the first place."

Continued Attraction

Schwab has always used mainframes to run its core brokerage applications, but the on/of

capability 'has enabled us to
see the mainframe as continuing to be attractive for this
kind of large-scale workload,"

Lamb added.

He wouldn't divulge any details about Schwab's contract.

IBM doesn't disclose its mainframe pricing, and customers are barred from talking about their contract terms.

are barred from talking about their contract terms. IBM began making the on/ off processing capacity available on its mainframes three years ago with the release of its \$900 systems. For some users, software costs also play a

big role in decisions to adopt a capacity-on-demand model. For example, Kenneth Kucera, senior vice president and head of the enterprise technology services division at First National Bank of

technology services division at First National Bank of Omaha, said that independent software vendors typically raise priors as a mainframe's MIPS processing capacity increases. With that permanent engine, you get killed by the ISVs," said Kuoera, who

decided to move off of Unix servers to the z9 partly because of the capacity-on-demand feature. First National completed the switch last year, he said.

The bank has almost 700,000 online customers who spide processing demand around paydays twice each month. Kucera said he didn't want a machine that ran at 60% capacity most of the time and carried 40% overhead for peak days. Instead, he runs his permanent processors we

Solve to Silve of capacity.

Mike Chubo, an analyst at
Gartner Inc., said the biggest
potential benefit of capacity on demand is its effect on
software costs. But, he added,
a lot depends on the contractual terms and conditions that
[users] have negotisted with

"At the end of the day, capacity on demand is an artificial pricing exercise," said Gordon Haff, an analyst at Illaminata Inc. in Nashua, N.H. Hardware vendors typically build enough of a financial margin into their systems to cover the cost of supplying extra CPU capacity, he added.

Bill Homa, CIO at Hannaford Bros. Co., a 55 billion grocer in Scarborough, Maine, purchased a 29 last year to go along with an existing 2990. Hannaford's business operations don't have the variable demander of a feasuable

services firm, but Homa said he is using capacity on demand for disaster recovery.

The two mainframes are 10 miles apur, and each has enough additional processing capacity available to handle the other's workloads in the event of a system failure. As a result Homa has dironned.

a disputer recovery service

\$500,000 spacelly \$

that was costing the company

#### Users See Good, Bad in Brocade's McData Buy Someone's ening to have to lone or fusers) want to how

IT executives analysts cite overlans in vendors' storage switch product lines

IT managers last week cald

that Brocade Communications Eusteens Inc.'s planned benout of storage switch rival McDara Corn has them concerned that it may mean the end of life for some of the products they use sene of the products they o the two commanies plan to

tightly integrate and then converse their product lines in little more than a year's time But some users and analysts ----tial overlap between the offerinest of the two switch wandors Mike Campbell, director

of DC systems and support at University of New Mexico Hospitals in Albuquerque, chose McData equipment over Reneade switches in March Campbell said he was surprised by last week's buyout deal. "We bought McData [nanducte] because use thought the company had mod technotony so make ening to be

concerned about what Brocade might do there " he said McData announced late last month that the Durham Disrefer School Board in Whithy. Ontario, had consolidated its direct attached storage device es onto a network built around the company's director-class

switches, Wilson Chen, mon Brocade's Buyout Plan

oner of technical services for the echool board said be seen both advantages and disadvantages to the acmission ges to the acquisition. The combination of Brocade

and Madage libely will asset "himner better services" as well as stronger products Chan said On the other hand he said he's worried that fire-dewill dron some of McDoos's

oducts. Arun Taneia, founder of Taneia Group Inc., a research firm in Honkiston Mass said the biggest challenge facing Brocade and McDuta is the need to rationalize the mony overlans in their product lines.

"Someone's going to nave to Someone's going to have to make the call. You live and seement CO Tom Buiscohi Broosde's

nice appeldant of marketing and the standard consisting would benefit users by penyid. ing them initially with intercoerability between switches and then with a conversed

hardware platform and comnatuwate planotta and t User Lovalty The companies have not to determine the criteria that

will be used to decide which of their respective products will their respective products will chi raid But unhome and user

those products they're evine those products, they we going to get them, ne said, adding offer comparing technologies in and to entain mutament San Jose-based Rescute annual to how Becomfield Cale based Ma Date in a steel swap transaction valued at

\$772 million weder ourset prices Brocade expects to complete the deal after its fircal first quarter, which ends . ... Bish Ward diseases of tech nical services at Philadelphia Stock Exchange Inc., said

be inch persionless one cerned about the acquisition Unmount he noted that as a Brocade user, the transition will affect him less than it

Scott Standers, director of Scott Sauducis, director o MAIS at 100 Media Person Cla inc. in west rand peace, re is another procade user. He the bossess in that were needed end up with more intercore. ability between different Fibre Channel switcher But Saunders said he's worried that Brocade could

will McPate meet

mismanage the acquisition and loss focus on customers product quality and technical Coundant is in the nancers of budgeting for a new di-

raster recovery site for lon which assesses a network of 60 television stations. He said that the McData burnest could limit his product choices - although he's satisfied with the Broads suitches he now

# beauty will also a next "As Blue Cross Compiles Health Care Database

\$45 million BI project to woo large businesses

Farlier this month, the national Blue Cross and Blue Shield Association announced an initiative to compile claims information from 79 million ents into a database that can be shared with 20 particle nating Blue Cross plans.

The Blue Health Intelligence (BHI) project, which was unwilled on Aug. 4. is designed so participating insurance companies can access aggregated claims information from the database to obtain feedback about what is driving health care costs. That information is something the employer clients at Blue Cross are demanding to see, said David Plocher, chief medical officer

of Blue Cross and Blue Shield "This is a competitive advantage, as we want to get more business from large and multistate self-insured employers," said Plocher, who is also the senior vice president of informatics for the association's BHI project. "This tool allows us to more accurately diagnose the causes of health care costs " Disabas also alaimed that it

will do so "er a level of precision no one else can do. As a result, he added, emplovers will be able to compure their health care cours with those of other commanies in their own industries in other parts of the country. The database, which has cost \$45 million over the past

the water to build and will be operational by early pext year. will be operated by FI Securdo, Calif.-based Computer Sciences Corp. on a central server in Deleurore Playber said The participating plans will send their claims data - stripped of any identifying

information — to that central server. When they want to get analysis of data from the other participating plans, they will submit a request to a program-mer who will extract the data based on varying parameters such as employer name, geo-

graphic location or disease types. Plocher added. The BHI already has a common data dictionary for the

regional insurers to use when reporting their information to the database so "there will be no inaccuracy introduced by that nost of variation " according to Plocher.

Putting Data Into Context Kyle Marshall, a snokes for Blue Cover and Blue Shield of North Carolina, which is participating in the RHI project, said that until now, the

company had limited access to claims data from other Rhie Cross/Blue Shield plans nariconvide for analysis "If an employer group sees thue its own claims data shows

it has a lot of employees with claims for diabetes ... bow do they put that into context? What can they do with that doro?" Marshall said. Using BHL that information can be mined with other data through a common tool. he

For example, he pointed out that a furniture manufactures could compare its claims data for a particular bealth problem with that of other furniture manufacturers or other similarly sized companies. Scott Tiazkun, an analyst

RHI Breakdown

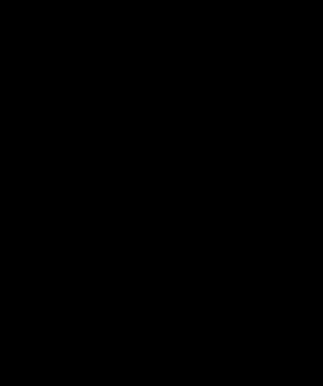
at IDC, said the BHI project is significant for several res-- most notably its size. By niling claims information

on 79 million parients, the database will be much larger than those envisioned by regional health information organiza-

"From a data mining and disease management perspective, a pool of patients and data information this large could be a great opportunity."

Tingkun said

The BHI system, he noted, "could engly analytic applications to the data to determine disease trends among various populations, like smokers, nonsmokers, people over 50." which ultimately could lead to more effective treatment.



# Users See Good, Bad in Brocade's McData Buy

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"Someone's going to have to play Solomon " Tameia said

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health information oncanizations he said \*From a data mining and disease management perspective, a pool of patients and data information this lance could be a great opportunity."

Trezkun said The BHI system he noted could apply analytic applications to the data to determine disease trende amone various populations, like smokers. nonsmokers, people over 50." which ultimately could lead to more effective treatment &

MI Drobes Baleson Of Plate on Saumbar ACI, LLC confirmed that it pub on door may a paried of provides for wheat 656 000 o molenno oy mouse wade --- The data was made ...............

a " and said ACI is of to Dundle

d Tachani At the Speech Tel: 2008 com such Survey 2007 next version of its water a politicary, into the ---- Aug in next year rd guarter. Microsoft said it entinue to sell the existing nd of past year and support its --- Secret 2014

#### M Tests Tool for fving Caller IDs

o of Second list on F e said the wender is testor that can verify the idrs. Brian Carr. IBM's director of so speech, said the tech to willbis the next way

#### thert Takes D MASSEY, who over

et of SAP All's FRP and re as CIO of Clark County in 's global public sector by Y CO. said its IT unit has d Lovel 2 and Lovel 3

# ON THE MARK



# Johs Jahs Next Windows . . .

... misses for being tardy and derivative. At Apple Comnuter Inc's Worldwide Developers Conference in San Francisco last week CFO Steve John heared sarrosm on Microsoft Corn's effort to finish development of Windows Vista, its next client-level operating system. Jobs specied that despite Microsoft's \$5 billion annual R&D budget, the operating system market leader hasn't been able to ship a successor to Windows XP in nearly five years. During the same period, he noted. Apple has shipped five with 64 his massions

versions of Mac OS X and it nearlessed a sixth called Leonard. at last week's conference. Worse, Jobs cracked Microsoft has enest most of its time convine features and technology from his company and Google Inc. "I guess money

isn't everything," he said. Indeed, Apple claims tha Leopard, which is scheduled to ship next spring, puts Microsoft on the innovation defensive vet again, Brian Croll, senior director of Mac-OS X product marketing. challenged Microsoft to match numerous features that

will be standard in Leopard. "Take 64-bit compatibility," Croll said. He argued that some 32-bit Windows applications - say, drivers in Fibre Channel adapter cards - will need to be updated to work

Stronger security can't wait for ... ... either Leopard or Vic Whether you're a Mac fanatic or a Windows blent PGP Corp. plans to ship its PGP Deskton 9.5 software for your systems before year's end,

of Vista Leonard he

natible with all 37-his

email but critical ones

like drivers and with

Croll also crowed

shout Leonard features

such as Time Machine

(for automatic back

ups). Spaces (task-specific

applications tied together

in a single window view)

and iChat's advanced video

Microsoft plays copycat again.

conferencing capabilities.

newer, 64-bit apps.

pointed out is com

#### NOT TECHNOLOGY TRENDS NEW BRODIST NEWS AND INDUSTRY BUTT BY MADE HALL

Says Supe director of mand-ott of the Pelo Alto Calif-based company. New for Macintosh meers will be disk encom tion for oon hoot volumes, a canability

that can be used to encrow data on, say, portable USB thumb drives. The drives can then be used to swap data among Windows and Mac machines that are runnine PGP's security software. One upcoming challenge for to perform full disk energy tion on computers that offer a dual-hoot ontion to users. For example Leonard will come standard with Apple's Boos Camp technology, which lets users start up their machines in either Mac or Windows mode PGP's engineers are working on the problem, says.

Somograi But he ease no esti-

#### mate on when they will come un with a solution. Insiders, outsiders everyone is a . . . englications including

itial danger to del against Two Silicon Velley vendors are readving security appliances designed to protect weer data and eveteme from malcontents armed with malware who have maliciousnear on their minds Ion Clay a product market-

ing manager at Trend Micro Inc., says the There's nothing like it in Vis-InterScan Gateta " he said Unless of course way Security appli-

ance being released this week by the Cupertino, Calif.-based wedor is aimed at companies with 100 to 1,000 end users InterScan monitors HTTP, POP3, FTP and other Internet protocols to ensure that the data they ferry isn't harbor ing any viruses, spyware or spam. IT managers can apply

content filtering to cuthouse messages and restrict and messages and reserves end Later this year, you'll be oble to manage multiple appliances from a central console Clay says. InterScan comes in air models: prices start at

24 400 Leff Brainard director of marketing at Reconney Corn a Managaia Viene Calif wants was to worry as much or ments more about in sider threats as you do about artemal ones "Com are bleeding from the inside out," be says. Faizel Lakhani Reconnex's vice president of marketing adds that the hard thing about protecting a comnany from roome insiders is dentifying what informati

is at risk. Like many other security wendow Recommen says it offers an appliance that can stop credit card numbers and other vital data from leaking out. But. Lakhpai sake how do you prevent someon from improperly divulging financial information, such as earnings-per-share figures that are often simple one- or two-diels numbers in an e-mail or instant message? You probably can't be admire But with iGuard, he claims. was can so back in time to determine who sent out messages with such data. That's because iGuard indexes and

- up to ATB with additional network-attached storage available — for later analy

stones all your outbound data

TRENO MICRO claims its into

sis. In September, Reconnex plans to ship Version 5.0 of iGuard's embedded software, which will let multiple appliances be centrally managed through a single console Pricing for iGuard starts at \$65,000. 0



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#### Australia Lans in Use Of F-health Technology -----

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each mone health data NAMES AND ADDRESS OF STREET tor most company last year after being for profit company and year after be 1. It also the transition to the mite account. completed its first profile of the health data that is nearlighteen a marismal has sis ('11) Ian Remockes and there is a Lock of at an experiencing interpreparability its and understanding of the workflow

monded to offer to obe one home data "Essentially, there is a whole range The many, make the many tange process." Reinacke with the added that An explorate has been to been adopted of 11 contain health care command with communicación de la companya de la c \* \*\*CHAD: CDAWEODD

Commits Like Crarie Stestman

# Briefly Noted

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in Case Donner Calif said it has signed a deal to ecoure Reima Reilena Yares leformat rolony Co. e Resine-based ofor that does software dovelor seet open neutral bever Japanese companies. Financial aues a string of accompitions in China by Achieva, which focuses on softwere development autourcies. SIMNERI EMON IDGNEWS SERVICE

agreed to buy a unit of Elmy Park, N.J.-based Emdeon Inc. that develops software for managing doctors' offices. Sage, based in Newcastle Upon Type, England will nay \$565 million for the Fran on Practice Services unit. The deal

is recented to alone much month ■ NAMEY DOMENO, LOGALETING SERVICE us data warehouse with data

energial more with more un to date fill remover. "A lot of our boork forcel is

busyming loss antisted with a data warehouse that shows data and sted is of the close of business lithe day before U Mount said. "They are booking more and more for as close to

date the challeness he said. When you go and tell the tem," Hostmann said, "you are basically telling them to storasking the questions about the

## Telstra Pulls Plans for Broadhand Network

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most import on also introa sid Mary of Next month, the comman will eniorate from mattendo

Corp. database to Microsoft Corn's SOI Server 2005 and in plans to use Hyper Roll with NA Server Intablished Simon & Schuster plans to eventually

expand the use of the data appropria tion tool to all new areas in which it olams to analy or amprenated data. Moneat said

response times of a minute and a half, which statem was once ceptable." With HyperRull per SPORS' TITLES decreased to five seconds, he said is exploring the

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# Aggregation Tool Cuts Wait for BI Data at Publisher Stuart Monat and proposition to harden Bo assess the

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The Structured Business Obtoods at Simon & Schuster were le manding over-more detailed percents from the company's encome data narchouse, said

endoned were personal times that resulted users were mcreasingly asking business in its state to man the non-orato tackle the problem.

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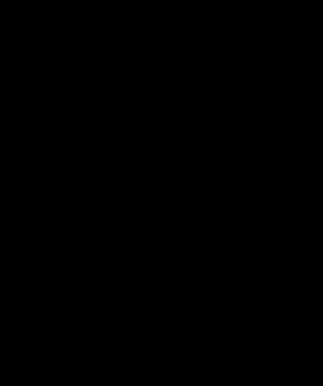
it Using data commenssion and anarenation algorithms to precompute a fraction of agercented values. HyperRoll has improved aucry performance areas, for example, response times to siles force aractics. have been reduced from to

minutes to one second, and

In May, the company began using HenerRoll with the sales

real time as we can set it. Bill Hostmann on analyst at Gartner Inc., said companies that roll out BL enterprise wide often encounter performance emblems. Often they constrain use rather than adjust their technology to accommo-

users to stop hitting the secinformation you need to run the business."





# GLORAL

#### Teletra Pulle Plans for Broadhand Notwork

DUTTE ALLAN I ARCTET Inform munications company last week said it was scrapping plans for a national high-speed broadband network after reaching an impasse with work after reaching an impasse with

regulators over no Melbourne-based Teletra Corn had melbourne-eased Teistra Corp. I (\$3.06 billion U.S.) in the so-called fiber to the gode natural which was alated to initially some Assessible's fire lument cities and then he expanded to

the passes and the But the company said it ended disout the company sa GLOBAL FACT

ment regulators because they failed to understand the cost of building out the network to Australin's unset reveal arross Tel. etra CEO Solomon Touana Cec Solomon 110

a move last month In a statement last mask the Amerralian Competition and Conit was "perplexed" by

An International Tolorows developed becomes in head assessed

in principle that the company should he entitled to recover the full cost of be entitled to recover the roll co-IN NAME OF STREET AND STREET STREET

Furnne to Rear Brunt Of CSC's Job Cutbacks

MOMPLITER SCIENCES COOP Issu week provided details about its

olan to shed 5 000 workers over the next two years, savine that about 2.650 of the job cuts will be in Europe to a 61 ag to the FLC Committee and Exchange Commission CSC said that 1 800 morkey will be dismissed in

North America and that \$50 will be let on in Australia and Asia The El Segundo-based IT services vendor added that the outbacks will be offset by the hiring of 2,000 employees \*in cer-

voluntary termination

tain lower cost regions " CSC reported a loss of ess a million on recorne of \$3.6 billion in its fiscal first ownerser which ended June 30. The company said it hones to negotiate

arrangeds at its European operations but involuntary outbacks may also be naminal in some countries municipal in some con

Australia Lags in Use Of E-health Technology ----

BOST IT work in the Australian DOLLI MORE III OR VALUE AND A health care thousany and .... standard identifiers for individuals and back an amide and individuals and CEO of a group month funded company charged with developing better meth-

ads of electronically collection and ous or electronically con NEHTA Ltd., which became a notfor-profit company last year after being E-Health Transition Authority recently completed its first profile of the health data that is available on a national hasis CFO Inn Reinecke said there is a

lack of standardization, interoperability and understanding of the workflow needed to effectively exchange data. \*Essentially, there is a whole range of unnecessary costs at all stages of the process," Reinecke said. He added that Australia has been a slow adopter of

IT within bealth ones compared with countries such as the U.S. and the U.K. - WCHAEL CRAWFORD COMPLITERWORLD AUSTRALIA

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Compiled by Crair Stedman.

# Briefly Noted

Oracle Applications trees up has opened as office is reals that will support its men

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go Group PLC said it h ed to key a unit of Element M.J.-based Freeloop les. th

Aggregation Tool Cuts Wait for BI Data at Publisher

Until a few months ago users at mublisher Simon & Schuster Inc. had to wait as long as a half-hour for results from business intelligence dusting about

The New York-based only. lishing house was facing a problem that is becoming more regevalent as companies ones un access to increasing numbers of business users: balancing the growing demand for data access with the strain put on BI tools and databases. In response, it installed a data appreciation tool to sneed up data access.

The 50 users of Business Obiects SA's enterprise reporting tools at Simon & Schuster were nding ever-more-detailed reports from the company's growing data warehouse, said

Stuart Mowat, vice president of information systems and technology Because of the "The speed of the reports prolonged overy response

times that resulted users were increasingly asking business analysts to run the reports. To tackle the problem

Simon & Schuster began to implement a data serveration tool from HyperRoll Inc. six months ago. Mowat said the tool integrates with the Busi ness Objects software and processes query requests from it. Using data compression and aggregation algorithms to precompute a fraction of ass

gated values. HyperRoll has improved query performance at the publisher in several areas. For example, response times to sales force queries have been reduced from 16 utes to one second, and

those for regional sales oueries have decreased from Il minutes to one second

coming back is obviously the most important advantage." said Mowat Next month, the company will migrate from an Oracle Corn database to Microsoft

Corp.'s SOL Server 2005, and it plans to use Hyper-Poll with SOIT Server. In addition Simon & Schuster response times plans to eventually of a minute and expand the use of a half, which for the data aggregation tool to all new areas in which it

plans to analyze aggregated data, owet said. In May the company began

using HyperRoll with the sales analysis system that it built internally using Microsoft Visual Basic and Net. That system performs aggregated analysis on combined retailer

and point-of-sale data "[It] was not reable before because of response times," Mouse said, "We were setting response times of a min

and a half, which for an online We were system was nonceptable," With HyperRoll, response times decreased to five

seconds, he said. The company is exploring the possibility of using HyperRoll to grate histori-

its data warehouse with does from transactional systems to provide users with more un-to-

date BI reports. "A lot of our functifornal is ecoming less satisfied with a data warehouse that shows data updated as of the close of husiness (the day before) \* Mowar said. "They are looking ore and more for as close to

real time as we can set it " Bill Hostmann, an analyst as Gartner Inc. said communics that roll out BI enterprisewide often encounter performance problems. Often, they constrain use rather than adjust

their technology to accommo date the challenges, he said. "When you go and tell the users to stop hitting the system," Hostmann said, "you are basically telling them to stop asking the questions about the

information you need to run

# Think you could use server optimization?

(Or are you okay with the way things are now?)



The Server Solutions You Need When You Need Them







#### 0 40 40 4 Gen 2 RFID

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Langford sold that never campiona sana the Kritz mandad contra firmurane un one to an arrest might Care 3 town Suc in work with Gen 2 i

Cours collect out come Can 2 circup residential state dell'a Pontagon have not a promisional consent data of Come 20 to phase out its first-generation DEID sechnology although a er it recembergy, animoph DOD has not to fix an exact Annallina

One unbost Gen 2 sekenter is Burner Steam Cicharine Inc. a lacksonville. Fla -based seafood distributor that condition W-LM art. The company went live with a Goo 2-based system

in hone. The new tree home increased the company's read increased the company's read rates from the low one range. CIGHT WIND A COUNTY However there we come limits to what the can do with the Gen 2 tech nology Stock-blacer \* \*--

# instance Burner Street has JUST THE FACTS

#### Gen 2 Helne Polish RFID

■ Gen 2 technology could help enable 100% read

- Sittle of survey respon nts said that between and 10 of their many

declay RFID by 2008 Reliability was deemed. more emported than cost in considering RFID

Gan Laconness from Marris Contract to and alchement they can read the new tars they conficuo me new right they can't write to the Gen 2 composer work wall toperhan in along amount of the Charles dala

said Berner Street has added noncentranegation AT P-09000 and the form the Technol ww.Corn. giving the common a blanded REID appleament with mixed canabilities on mixed capabilities. also require undating of his

company's homogrown EPP and warehouse management and waterwest managemen that can be captured by the amount conception town Osvesil Gen 2 costs loss

to implement then the posting technology did according to Searly-falls Business Street initially roid roughly II cents for each Gen 2 tout be said noting that the compone said 21 cents for first-peneration raes. The new reappears cost about \$200

lose than neige-moneration and the freehalt and The cost of a Gen 2 pilot Conflicts and an of the control of t America said Simon Ellis manufacture, said supplies as the consumer packward mode

---- crums which is a major manufacturer, which is a major supplier to war M I billions contabol to Con 2 in July to comply with EPCalobal Inc. standards Kilie said. Although the technol over is still relatively now to Unilmor its need seem boso immercial has read faires mave

esting that Gen 2 products are Country that Gen 2 products are first-peneration devices were Namentalane \*B CID is still immature "Ellis added According to an e-mail from a Metro Group spokesman the

IDM Comices embles

grate with other applications.

Corporate Express Inc. in

Broomfield, Colo., has been

using Documentum technol-

ony for 10 years, according to

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Durveldorf Germany-based not all today and a company and a have risen since it began using Con Years However he said in

non too needs to alamaias ann concrete improvements from the new technology

Mile one not similar at a we are not anning at a quick amortization for the the lease with the death is in the retail sector and a healthy mania considerable mani ence with new technologies." 

Do impression and estaand following FPC clobal stan obsolete as quickly as firstmonoration REID systems bear predicted industry analysis the Francisco Industry analyse the time. Fortunelly worked at Booton board Abouton Course Inc. although he has since left the consulting from

According to a recently released therdeen senses on RFID adoption written by Fontunelly (see box) in a surrow the firm conducted. 75% of the respondents had better read rates using Gen 2 technology.

# EMC Links Content. Security Software From Acquisitions

Aim is to give users more control over data even outside corporate firewalls

FMC Corn said last week that it has integrated content and digital rights management software from two of its acquisitions in an effort to give their data, even if the informathe corporate firewall

EMC released a new version nf its Records Manager software which was developed he Decumentum has before is was acquired by the storage vendor in late 2003. EMC also added a package combining content management capabilities with digital rights management technology that it obtained through its acquisition of Authentica Inc. in February. Records Manager 5 I and the Information Rushes Management (IRM) Services of

fering can be used together to arealy security protections and permissions to unstructured data stored in a Documentum repository, said Lubor Ptacek. a marketing director at FMC. Dance Wells ChO or Manage Navigation Co. in Oakland. Calif. said he would be interexted in the new functionality for managing financial documents, especially when his

company starts offering shipping services from China. Matson is a carno chimner and broker and has annual revenue of about \$1.5 billion Weis said the company is and in a new order manage.

deploying Documentum prodacts throughout its operations. embedding the software within its accounts payable system ment system for its truck and rail business

Proces and the unified of forine of Records Managers and IPM Services is simed at companies that not only store

data for regulatory compliance purposes but also continue to use the information and want to ensure that it is destroyed when the required retention

#### period is over Bill Morey director of records How It Works

EMC said its IRM Services software lots o

SE PAPER AND INK USED IN THE DRI PUBLICATION MAY AFFECT THE QUALITY OF THE MICROFORM EDITION

management The CAA bill content owners to control lion distributor of office and access to data and how it is computer products is now used, while maintaining a full rolling it out enterprisewide audit trail of document active for managing all content on its: EMC said Massachile desktop PCs — primarily for Records Manager 53 was compliance reasons built using a service-oriented Moreoveraid be could see his architecture, making it more modular and entire to inte-

company adding a product like IPM Services in the future "Further down the mad, we'll he looking at solutions such as IRM, where you can wrap security requirements and controle around content " he said Every major vendor in unlend in content management is at least thinking about how to incorporate digital rights management technology into their products, said Melissa

Webster an analyst at IDC in Framingham, Mass. As an example of how the software could be used. Webster said that if a product design company sent information about a planned new product to a half-dozen neospective manufacturers, the integrated content and digital rights management tools could ensure that the losing hidders wouldn't be able to make knockoffs based on the

original design.



### C-----Gen 2 RFID

conding to Simon Langford cording to Simon Langrord, company's director of clobal PEID strategy and transports

tion contains I appried said the DEID numbers in place of Wal Marr needed only a firmware upgrade to work with Con 2 tour Cincile also actailer Mater Group rolled out some Gen 2 Group rouge out some Gen 2 Pentagon has set a provisional stagon has set a provisi phase out its first-erneration

PETD technology sithough a okeswoman said that the DOD has not to fin an enter cacanne. One upbeat Gen 2 adopter is Beaver Street Fisheries Inc. a lacksonville Els based en food distributor that supplies Wal-Mart. The company went

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# increases Requir Street has Gen 2 Heins

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■ Gen 2 technology could help enable 100% rend rates for RFID eites # 50% of survey respona and 10 of their ma

Com I common from Matrix Cent i scanners from marro they can read the new tags show son't maits to the Con ? they can't write to the Gen's compact work well together in close proximity. Stockdala anid Banner Street has added said beaver street has added newer-generation ALK-9000 om: Corp. giving the company

a blended RFID environment with mixed conshibites th mixed capabilities. also require undating of his commons's homography EVD and warehouse management and warehouse management that can be captured by the second-reportion tees.

Ouerall Con 2 costs less to implement then the ecoling technology did according to Stockdale, Beaver Street initially paid roughly 11 cents for each Gen 2 ton he said notine that the company paid 31 cents for first-peneration tags. The new scanners cost about \$300

less than prior-generation The cost of a Gen 2 pilot facility persons was shown facility retroot was access America said Simon Ellis considerate and a surrous Edits,

consumer nackaged goods manufactures which is a major mandjactures, which is a major had " he observed I in large switched to Con 2

in July to comply with EPCsaid. Although the technolone is still relatively near to Unilares its made stee bear improved by 10%, he said indicating that Gen 2 products are "quite a hit more robust" than first-generation devices were Nevertheless, "RFID is will

immature." Fills added According to an e-mail from a Metro Group spokesman, the Dureeldorf Germany-based netalles's read ecourage nates have risen since it began using

was too souls to ninnoist anu was too earry to prinpous any the new technology "We are not siming at a me are not attiming at a quick amortization (of the the innovation leadership in the retail sector and a healths marrie recording the experi ence with new technologies " circe with new recinit

By improving read rates and following FPC clobal stanand tollowing EPCgoods st dands Can 7 won't become obsolete as quickly as first. conducte an Quickly an interpeneration in the systems John Fontanella in late June At joint Pontanella in sate june. At Boston-based Aberdeen Comm Inc., although he has since left the consulting from According to a recently

released Aberdeen report on RFID adoption written by Fontenells (see how) in a curvey the firm conducted 75% of the respondents had better read rates using Gen 2 technology. Gen 2 tors Mossesser he said it

> anagement. The \$4.6 billion distributor of office and

computer products is now

rolling it out enterprisewide

for managing all content on

compliance reasons

desktop PCs - primarily for

Money said he could see his

company adding a product like

IPM Services in the future

# **EMC Links Content. Security** Software From Acquisitions

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in its accounts payable system and in a new order management system for its truck and

fering of Records Manager

and IPM Services is aimed at anise that not only stone data for regulatory compliance purposes but also continue to use the information and want to ensure that it is destroyed when the required retention

3

4

How It Works

content owners to control access to data and hour it is used, while maintaining a full audit trail of document activits EMC said Massachile Records Manager 5.3 was built using a service-oriented architecture making it more modular and engine to integrate with other applications. antid Persons

TD14 Camina anables

Corporate Express Inc. in. Broomfield, Colo., has been using Documentum technol ony for 10 years, according to Bill Morey director of records

Therther down the road, we'll he looking at solutions such as IPM where you can wren security requirements and controis around content," he said Every major vendor inic at least thinking about how to incorporate digital rights management technology into their products, said Melices Webster on analyst at IDC in Framingham, Mass.

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#### Ohio U. Axes Two IT Execs After Security Breaches Computenzeld "Pr fring me the university is wrongfully damaging my credibility

amformand standing on

a elobal scale " Reid wrote

"To single me out as being m-

Says they didn't do enough to protect evetame: workers insist firings univer

#### NIO UNIVERSE this must be found two too IT meres om who had been

ers who had been a string of five data security because coning that there should have done more to cocum the school's cortems But the two FT officials

seen't taking their dismissals bring down. One said that he design to the same transfer and for the security sayfus which were discovered in April and May. An attorney for the other morehon described the finings of a conserue by Ot I officials and said that his alignt plane to true and the late the

Athens Ohio-based Of I announced on Aug. 3 that it had dismissed Tom Reid its discator of communication network services and Todd Asheson the school's manager of Internet and systems. The firings came three weeks after CIO William Sams said that be would resign once a replace. most is found and one week

- Garage and Old Bernand anter sams and OC Provost 20 major entire plan designed 20 your action pain ocsigned ownerization and its informaties execute exectities Variable and Market

termination letters to Raid and Ashara Company to Kind an become clear from my analy sis that you slosely should have former the whole and consequences of IT recurity hreaches, and also should have taken a much more recover eible sole in commise the wide ance and local-area networks under word normanibility Reid who had worked at

Oll for 22 years shot back in a

To single me out as being re thefte is elembe not supported tnetts is simply not support leading advice on securing information of large paragraph interesting uniquestities \* A 'Discusting Coverus' outside consultant's report on

# Deld marking bottorop

the associate becaute a string ing that it contained errors and that a communed errors tation was destroyed leaving him unable to region the information used to prepare the report. The destruction of

It has become clear from my analysis that you should have taken a much more responsible role in securing the wide-area and local-area networks under your responsibility

and annual edutation Obligation public-records laws be said Foodorish Cittor on attorney in Colombia Ottion and auto consecepting Asheron collect the firings "a disgraceful dismusting commune on the part gusting coverup on the pur computers backed at O'll not in Acheson's ores of recronsibility set comeloss he is being blamed "Gitter said \*The same is true of Tom Baid!

intention opposed of his fixing to to the catherine back City said He and Acheson are also exploring possible legal writer These two purel careers are heles two gays concern are ridiculous" Gittes said In response to Reid's com ments Sams confirmed last week that the consultant

To single me out as being responsible for the recent data thefte is simply not supported by the farte

numbers and dates of hirth

of military service

information.

and claims data that

may include medical

Unisys spokes-

certain that the PC

was stolen. Company

officials aren't ruling

woman Lisa Meyers

said the IT wender and

services provider isn't

of notions plus the names of

..... breaches destroyed the documentation by collected from injentation he conected San destruction of the notes sould have addressed that he for he said the consultant Turns not said, the consultant was no his notes might be needed." Of Lie changing its consult for an example of the community such notes must be kent Same said the added that the fairne resulted from a lack of performanos by Baid and Achaeon and annual Sankatantially

based on the report At a labs 70 secon confee ence Sams said the 20 initia. times in Oil Penery IT place the sin oc six wit pia pleted over the part nine to 12 months and libely will cont \$5.5 million to \$8 million. The steps include a half-dozen technology investments such as the installation of a networkperimeter frewall and the development of an entermelon wide security architecture

with multiple tiers of defenses The plan also includes a series of procedural and oreanizational changes, including a restructuring of the school's central IT group.

# VA Says Another Computer Is Missing

The U.S. Department of Vererane Affaire last week announced that a desktop PC containing personal informs tion on about 38,000 veterans was missing from an office of Unisys Corp., which had the data as part of its role as a subcontractor to the agency

The incident followed the theft of a laptop and external hard drive that held data on 26.5 million veterans and action-duty military personnel from a VA employee's home in early May I set week's disclosure prompted a new round of calls for the resignation of VA Secretary R. James Nicholson from federal lawmakers including Senate Minority

Leader Harry Rold (D.Ney) Nicholson has vowed to make the VA "a gold standard\* for information security among government agencies. But in a statement last week he said the incident at Unisys shows anew that improving the security of the agency's data isn't a simple task.

# Complex Work Ahead

The agency 'is making progress in efforts to reform its information technology and cybersecurity procedures but this report of a missing comnuter at a subcontractor's secure building underscores the complexity of the work ahead as we establish (the) VA as a leader in data and information

security." Nicholson said.

surance collection for the VA's medical centers in Pittsburgh and Philadelphia, notified the avency on Aug. 3 that the computer was missing from its Reston, Va., office, The We cald it immediately sent a team to Unisys to help search for the missing system and to

Unique which assists in in-

determine exactly what infor-The agency, which disclosed the incident last Monday, said the missing PC is limited to sections as make associated tracet ment at the two Denneylyania medical centers during the

nost four years. According to the VA, the desktop system may have contained the names addresses, Social Security

out the possibility that the system has simply heen misplaced. But. the said "we can't find it. It's missing from where it's regularly housed, and the building has been swept several times

Unisys is continuing to review security tanes, records and loss and conduct inter-

views, Meyers added, She said the data stored on the

their insurance companies. PC wasn't encrypted, nor was billing information their dates there a requirement for that under the company's contract with the VA The VA said it notified the FBI and the U.S. Department of Homeland Security's Commuter Emercency Response Team about the missing system, as well as appropriate coogressional committoes and lawmakers

The loss of the PC was disclosed two days after police in Maryland announced the arrests of two 19-year-old men accused of stealing the laptop from the VA worker's home in May Charges are pending against a third suspect a invenile being held on another charge.



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hint of any familiality later

#### DON TENNANT

# Wincing and Grimacing

OU KNOW HOW you wince when you realize you've messed up? Occasionally, the wince morphs into a grimace when the extent to which you've blown it dawns on you. I've been doing some grimaring here:

ing some grimacing nere.

Tve always told my kids that when you goof up, you need to acknowledge it, make amends for it, learn from it and move on. I guess I'd better practice what I nreach. So here goes.

what I preach. So I Three weeks ago, I wrote an editorial titled "Leaders and Followers." In which I characterized Action of the Company of the Action of the Company of characteristics of the colored that Griven by a desire to make the world a better place. I contrasted that with the corporate culture that So riven by a testing of ADS rival lenter, which I characteristic culture of ADS rival lenter, which I characterized as fat, happy and oblivious to what's even acceded to improve things

around the world.

The first indication I'd blown it came in the form of an e-mail from an intel employee in Acton. Mass. Not tool me that Intel employee in Acton. Mass. Not tool me that Intel recently supported him in wording with the Clo of The TJX Companies to donate media equipment to a nearly school for mertally handicapped children and young adults. The employee, who said he'd been working at Intel for six years after an IB-war stift at IBM. charac-

terized finel as 'na anazing company' and 'n greac corporate citizen.'
What drew the first wince, though, was speaking to Duev Stangis, director of corporate responsibility at Intel, and learning about things like Intel being perpetually high on the intel series of the control of the intelligence of the control of the series of the control of the control intelligence of the control of the series of the control of the control intelligence of the control of the series of the ser

I had made a big deal in my editorial about the remarks of AMD CEO Hector Ruiz in June, when he accepted an award for leadership in global commerce at the Computerworld Honors event in Washington. Neither Stangis nor anyone else at Intel mentioned it, but I learned that seven months earlier, Intel had also received an award in Washington. It

was for leadership in corporate social responsibility, bestowed by Business Ethics magazine at the Business for Social Responsibility Conference. The full-fledged grimace came when I walked into the Intel Computer Clubbouse here in FraminaI realized just how far off base Id been in that editorial. The chabbouse, located on the second floor of an old fire station that's now the local Boys & Girks (Tub.) is one of 122 that Intel has set up all over the word for like in disadvantaged areas. This particular one came into being six years ago with a \$350,000 grant from Intel. Serve Zept, the Boys & Girts Cub education coordinator who runn it, add the last received a \$440,000 grant from

"But it's not just about the technology," Zepf said. "It's about interaction with a responsible adult," which is made possible by the employees from Intel and other companies who volunters to serve as memors."

L can move on now, having learned that Computerworld 's hometown of Framingham is a better place because of what Intel is doing here, and that a lot of people in hometowns that a lot of people in hometowns.

all ower the world can say the same thing, As painful as the wincing and grimacing was, what I'll really take away from all this is the smile I got move the world can say the same to be a same to be a

and their work, you'd know what I mean.



The Secret Life of IT

# Think About Messages

You Send

Information technology
managers don't spend
a lot of time thinking
about their marketing

about their marketing message. The ones I'm talking to don't realize they have any, But when we start to talk about the things they are communicating to their business colleagues and clients, it soon becomes apparent to most of them that they are running a marketing campaign without realizing it. Unfortunately, that means they are mostly pending messages that say "We can't

sending messages that help" or "We don't want to be involved" or "We can't be trusted" — not exactly the

messages they want to send. You might not like it — or even believe it — but every interaction with users is an

tion with users is an exercise in marketing. Here are some examples. The newsletter: Most IT organizations

The newsletter: Most IT organizations publish a newsletter. In it, there's usually a chart showing how well IT is doing

response times, help deak calls, the kind of thing. What the IT department doesn't realize is how these few square inches used all the good work it has done. From the user's polas of view, the only availability that matters is 100%, and any time spent waising on the phone for the help deak tor working with a slow application) is time wasted. These communications are using underest the credibility of the properties of the properties of the behavior of the properties of the properties of the behavior of the properties of the properties of the behavior of the properties of the properties of the behavior of the properties of the pro

anything that doesn't awalen "can't win" responses in users.

The project The client's project is ready to start, and what's first on IT's agenda't A study of what tools should be used this time around. From the client's point of view, this is work the IT organization should have done look pefore the project not under

----- Communication of the same of the sam can be seen as IT internal work rather than "moning this along to completion" work sends a message of latiness (TT didn't do what it should do noutingly) or indesign (aren't IT folks supposed to be the experts on all these things? More execution that can be necessard ar internal work outside the project. It is better to do the study in August and have a public start in Contember then to start in August and do the study as

the first delinerable The election interestion for many companies, planning season is upon IT are out trying to learn what their clients want in the coming year. Usualby these excursions start with a simple on "So what are you thinking of doing next year?" This approach freezes the relationship immediately. To develop the relationship, think ahead. Then you'll be prepared to approach ness managers with consething like this: "We'd like to share some things un'm researched that might help unu as may alon " That shows your interest in their future requirements between nian carles Now when you sel: "What are you thinking for next year?" you've already contributed something better than the IT equivalent of "Hi I'm Sam and I'll be your waiter tonight. Can I

take your order!" Contradictory messages: Business managers passionately hate cetting mixed messages, Often, IT sends many, Architecture has one the development people another, and there's a third when a problem occurs. Manage each client as an "account"; have a strategy for each. Never finger-point in public never so off on a tangent facilitating only your area's interests. Now what are you selling? If it's not aiding you. fix the message!

# THORNTON A. MAY Banking's Boring Period

NCE UPON A TIME. not so very long ago, banks were among the most innovative of industries when it came to using IT to create petitive advantage. Observers of the financial services scene have begun to notice and comment on banking's boring period (1996-?). The question is. Is this period of nonin-

movation and Before we answer that

question, it probably makes sense to ask "Why did insense to ask, "Willy did inverious englysts experts rundite and numer who nonulate the consultancies and subscription-research along to the banking industrial there is general consensus

about root causes. And th industry consolidation Consider the numbers Bank of America is the anoduct of more than 3 000 acquisitions in its lone history SNI Einancial a Charlotterville Va. hased company, documents that the value of the 74 bank and thrift deals and nounced in the record outsiter of 2006 totaled \$47.3 billion, more than in the our four outstore combined Going head to 2004 these were 221 deels totaline \$131 Shillion in value lad be

I.P. Morgan's eve-popping \$58.8 billion telegraph Con And in 2002 there were 264 bank and thrift deals totaline \$77 ¢ billion in value And consolidation won't slow soon According to the FDIC, there are about 8.890 insured banks and thrifts in the



U.S. The vast majorny are less than \$200 million in Kas than 2200 minion hanker states the situation blumbus "Many banks are they have to grow to earn their independence. There their mospensence. I no or end up being acquired \* One officer of this feature of mercer and somisition hosy buying and then di-

meeting what they been bought that innovation — particularly product inno varion - hasn't gotten much thought. Consolidation isn't alone in homeon ing technology innovation in the bank. ion industry. These is also possiletory compliance. This is where you really start to bear the experts make pois One prominent executive who spoke anonymously said that innovation initiations always take a back sont to minuteres always take a cock sear to forty. One researcher remaind that one of hos bank oliones was enoughed 90; of total bank revenue on compliance Of more concern perhaps is the helief on the part of some clever industry

leaders that the days of technology.

WANT OUR OPINIONS More columnists and links to archives of provious enabled product differentiation are



own One of the emertest minds in the to de como de Wells Expen describes the situation or follows: "The products are commodition The way you distribute them is net. I he way you distribute them is ine products truly behind no

This is where banks should be con-I DIS IS WHERE DAMES SHOULD BE COMcertifica. Willie they focus on extract postmerger emeancies and accepting communitions like West Man and County are enterine the playing field The sole of a bank in the financial

services value chain is changing and it's being threatened Google Charlesul allows users to make purchases from online stores using payment and shipnine information that been on file with Goode The company's roal said CFO Eric E Schmidt is to make it engine and faster for people to buy products advertised on Google - and thereby attract more advertisers. It's a very different model than a traditional hank's but a

throat nonetheloss But appearable is a catalant to innountion. It could be that a new day of host innovation will soon be smon as 1

# READERS' LETTERS

happen for everyone. Thanks for Inspiration's Value identifying the real insure hebital FOUND Frank Hayes' column an excellent workplace Pob Hongland Best Places Secret" [Frankly Speaking June 191 inspirational Vice president of IT. I dare say after paying reason WD-40Co able salates to your employees. San Diego. making them feel that they are hoogland@wd40.com making a contribution to the busi

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thinn. If you income employees

you'll get more effort and higher

more time: they will be more perceivation with the hours they

Lead project environs.

of America, Nashville

Laboratory Corporation

UNDAMENTALLY, people

went to make a difference

with their work. When employee

can see how their piece makes

personal and professional thing

the business go, many good

already work.

doesn't mean they'll have to invest

Users Want a 'Shazam' World performance from them. And that

MERF WAS nothing new in the article "Want to Kill a Proy ect? Keen Quiet About Problems. Study Finds' (Computerworld.com. June 71. This has been a port of IT from Day One. Manager makes promises based on hope and expects its hone to become reality. Let managers do the

enelysis, requirements, design testing and implementation, then perhaps they would realize this is not a "shazam" world Bill James

Richland, Wash.

WAS right there follows for the H-16s to go home five years ano, but I have opened my eyes CPmorammers File Federal Complaints Over 14-18 Only Ads." Computerworks.com June 190 There into do our SAP work but

ter and stay on the spb better than ILS labor There is a place for both types of employee in companies. Although we do not sooned H-1Rs we are looking in that direction due to

their growth in knowledge and willingness to work without guestioning the clients' needs. Christopher M. Carter President and CEO. CCI Milwandor coarter@cciere.com

O PPOMENTS OF the H-18 visa program need to get trained so they can compete with the best out there. Most of those who cry loul are underperformers.

In Defense of H-1Rs or lack work experience or educabion. It's true that some companies modes to him M. Eds. but if's and herause such workers are cheen have so MAR till test upor and I was naid above market rate

For any company, the bottom line is to grow from quarter to quarter and make mother. To do that they are shown include for the best and the brightest. And in this day of alabalization was have to complete and grab the opportunity and make your future.

Siden Hammel Vencesner, British Columbia

COMPUTERWORLD welcomes nents from its markers. Letters will be edited for brevity and clarity. They should be addressed to James Eckle, letters editor, Computerworld, PO Box 9171, 1 Speen Street Framingham, Mass. 01701. Fizx (508) 879-4843. E-mail: letters@ computerworld.com. Include an address and phone number for immodists uniforation

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# **TECHNOLOGY**



# Geeks Garden

This weeks strong the rectinously landscape highlights souped-up nanotubes, research led by Arno Rauschenbeutel (left) into laser tweezers, and yet another father of calculating machines. PAOE 28

#### SECURITY MANAGER'S JOURNAL I Want to Rule the World Or Run Away From It

After a stressful year, a vacation would seem to be in order. So why would C.J. Kelly want to become her state's CISO? PAGE 30 OPINION
It's Not Too Soon for a
Text Technology Strategy
Curt A. Monash provides advice on
how to build a text technology architecture. First tion for started PAGE 31

# RFID Success Signals

As the cost of tags comes down, RFID projects are finding appropriate niches, and implementation is up. BY LINDA ROSENCRANCE

ADD FREQUENCY DESTRICTION
technology has been around for
years, but it has never lived up to
it is a sever lived up to
down, however, there are upcife applications, including assets
tracking and supply clain automation, where RFID technology
makes seens, says Rebecca Westerman, an analyst

at Nucleus Research Inc. in Wellesley, Mass.
"There was a lot of excitement about RFID for a
while, and then people took a step back and asked,
'is this really ready for prime time?' in terms of
being cost-effective and in terms of being a bet-

ter alternative to the bar-code and scanning systems," says Wetterman. "As tags get cheaper and the infrastructure to manage all of that data gets cheaper, there are other areas where RFID makes sense, including in the retail environment." Companies are also implementing RFID sch-

Companies are also implementing RFID technology to track assets within their own walls or in their parking lots, says Louis Sirico, an analyst and chief technology officer at Silver Spring, Md.-based RFIDSwitchboard, a Web portal that offers companies infor-

mation about deploying RFID technology. Sirico, too, sees RFID becoming much more ubiquitous as costs decrease. "I see RFID tags being built into assets; so it's not a question of tagging something, but there's already a tag built into the product," Sirico says. "I see that already starting to happen. The primary barrier is cost, but as volumes increase, more and more compunies will start using it because its benefits can lead to ROI. As demand in-

cause its benefits can lead to ROI. As demand increases, the products are going to become better and less expensive."

Costs for passive RFID tags have

Costs for passive RFID tags have dropped dramatically, Sirico says. In 2000, passive RFID labels cost about \$1 each; now they go for less than 20 cents. The price of active tags has also decreased, from \$75-800 to \$15-820, be says.

Continued on page 26



# NOT A BIG FAN OF BIG FANS.

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#### Constraint from pope 24

Global container shipping company API 1 nd is Global container shipping company API. Ltd. is marine terminal software from WhereNet Corn to marine terminal software from wherever Corp. track assets in its 300-acre discard

"The shility to find comething on that 100, ores "I he ability to find something on that 300-acre because they want to know which container is in which parking stell out of the \$ 000 or 0000 parking stalls we have " says Nathaniel Seeds director of port

one at Oakland Calif-based API The Whenther technology molecus tracking environment that had been used to seen each new of containers since the facility opened in 1997. Seeds

says. I lsing the old system finding a container could take immend of three bours. he can "I describe that inventory system as "Park it now. find it later " Sands your "But over time as the busi-

ness grew, it didn't respond quickly enough to the new pace of the operation

#### Looking for Options

So API hearn to evolve alternatives including CDSbased technology, motion-sensor-based systems and RFID ultimately settling on the WhereNet system because it enables APL to immediately locate its inventory in real time and is cost-effective - although Seeds wouldn't provide specific figures.

API, affixed When Tae transmitters to more than 30,000 chaosis which store the containers and to its entire inventory of terminal trucks. A local infra structure of more than 80 wireless Where! AN locating access points and WherePort devices at 12 entry and eight exit gates enables the system to automati cally recognize when a chassis is entering or leaving the facility. Seeds says. The system provides real-time tracking of each on-site chassis and automatically undates the chassis location when it is parked, he says,

# Types of Tags

Now when a container is unloaded from an API ship and placed onto a charge a clark encurse that the IDs of the container, chassis and yard tractor are entered into API's terminal energing coffusion A ward tractor driver then transports the container and chussis into the yard. The yard tractor is emissed with sas into the yard. The yard traction is equipped with location of the parking stall where the associated container has been dropped off is immediately recorded. "WhereNet's deployment at API's terminal in L.A. was the first deployment at a marine terminal any where in world, so we were sort of building this as

we went " Seeds save Even so, implementation was pretty painless, be adds. API, knew that the core technology - active tass and the DTOA (differential time of arrival) location algorithms - would be functional, but Where-

F- Second terrotred on

Not had to develop some new location algorithms

energifically for the API site Seeds save "So there were some envineering issues from WhereNet's ride — like how to triener the sensors on the tractors and how to write the algorithms so we would locate a chassis that was mound from one space to another by something other than a sensorequipped yard tractor," Seeds savs.

Although the project has yielded a return on investment. Seeds says the purpose of the implementation was to impense customer service

"Our focus is on the customer," he says, "We wanted to make our customers' experience as good as it can possibly be. We didn't do this to cut costs, but to improve the efficiency of the operation. We would have still done it had we not saved a dime."

Although it would be better to put the tags on the

# Read on Book Inventories



a cost of about 10 cents per item - and go live est. Ya con of the l



contained outlier than on the charge that simbably containers rather than on the chassis, that procus much disagreement in the industry about the best much disagreement in the industry about the best analyst at ARI Research in Overer Roy N V

"So what WhereNet is doing is tracking the char So what wherever is doing is tracking the chaose countries that's being tracked not the conference equipment that's being tracked, not the equipment norm, reppetiti says. So the whole mode is, they wan the more they move them, the more time is wasted and the more they move them, the more time is wasted and at all times and what containers they're handline below learning officiancies at the ports and terminals

#### Reality Check on Druns

Prizer Inc. is using an RFID application to prevent the counterfeiting of the drug Vigera

"Recause of customer mandates and regulator reminements to deter counterfeiting, we decided mail and DETD sources all course bottles and nellets of Visers being distributed in the U.S. that started thinwing in 2005 " cone Down Stoner director of trade product integrity at the New York-based nharmacoutical company "We enabled an authentication service in January of 2006, which means that others in the supply chain that have the necessary infrastructure - readers, antennas, computers - in place to be able to read the RFID taus and are able to confirm back through a secure Pfizer Web site the authenticity of the electronic product code number that it is issued by Pfizer\*

track nine months to set the system ready to mill out says Paul Greene, senior director of drug product automation for Pfiver clobal manufacturing, who was the leader of the team responsible for integrating the RFID technology into the company's existing systems. The RFID system consists of technology from Sys-Tech International, TarSys USA Inc., Alien Technolo-

in Command SupplyScane Comp Craphory N L-based By Corp. and SupplyScape Corp. Crantodry, N.J.-Dased SurTurb is providing its TIPS (Total Interested Park. System is providing as 1105 ( total integrated raceline devices. Among other things, TIPS excedes and records EPC serial numbers to the BFID tags and and and out has coder (a han code matern is used as a redundant bar codes to our c

Cambridge Mass should Turke is supplying highformary (12 Se Mile) item level tree and readers Morean Hill Calif-based Alien provides observables. General train And Wohners Mass should Surply Score is providing its Rx Authentication service to confirm that a nachage received by a pharmacy is an

authentic product from Priver Comme says the integrated system is designed to careene says the integrated system is designed to each Vigers bottle with a unique RFID-enabled mandage Identification the that centures

information at the individual item level Then the SorTech system verifies all the date on the DEID task and has coder and coreblishes a parent child relationship that ties the individual bottles of Viaera to the cases and pallets. The cases and pallers are

equipped with ultra-high-frequency tags from Alien Technology - and the information the tags contain is stored in a secure database. The SysTech software then makes all the data available for the authorities. tion and other business and track-and-trace arelications. The system bundles all the real-time was soine-Level business percentage including managing rejects reworks and quality assurance functions.

Once compiled in the SysTech system, the individual drug information is exported to SupplyScape's cofeware which operates with supply chain partners' applications to manage drug bottle authentication as the packages are passed throughout the supply chain. "This hadn't been done before the way we wanted it done, so we were doing it from scratch, basically,"

Greene says "While doing this, we discovered that DETD middlescene communics that were nothing up at the manner water companies than were pupping up real time so we from that exerciting we resolute to do in the line could be done by a more predictional line. and in the same countries to be for Teach to their unwanded on evisting evision."

Commette the surrem encoder 120 bottles of Visters ner minute. Greene says. "It takes 400 milliseconds to do a read/write ac-

tion, so maybe you can't do 300 per minute even tion, so mayor you can't no soo per minute. even "And there's also the issue of the two not being at re-Visite or they need to be so missends and misserites still occur. We need the next reperation of technolney to reduce the reject rate and increase the sneed or which we can do it."

Using RFID to track Viagra makes perfect sense for Pfizer, says Wester man "We see people tending to adopt DEID more when whatever they're tracking has a higher cost " she cave \*Counterfair Viners is a hope financial

issue for Priver and a liability as well, so it may make comes for shown to track that stuff many affectively." Although the system is a powerful one, Greene says that until exercise up and dears the signly chain in. stalls the required infrastructure, Pfizer can only do

"No one can read any of this stuff - there are a lot of parties in the supply chain, but who's enine to nov for the installation of all the readers and portals, all that stuff that needs to get put in place?" Greene says. \*All we can say is that we shipped the product from a Diner facility to a particular Priver distribution center to a particular wholesaler. But from there, Ithe number chain partners] are on their own, because they don't have all the necessary equipment installed to

they can get the (pertinent information)." \*



coal corters from the rest of the stock. Not only free the matern flan special perfers, had contourstook notified. The outs: ers are also mean es an SMS or an e-moil indicating that the ook is ready." says Work,

shed at the store, the books are is scenned again as it is placed on the shell to my reads each tag, Well year Proce Software's Agents event-stream processing tool

ok is counted just once. he project, which took about four morehe de, can into its share of plitches. Some to the back-and syste seriors, initially, the ASN was miss

what type of RFID labels to use and w lay is not an option, you must recor

became White View in all working with warriors in have the meterns, council "the core technology is ting as expected," he was Salester tracks books until they are sold to the

over the tack are deschaded at the time of sale because of privacy requirements. "We don't want to have a link between the RFID and the

ner information," Writ cases. Next. Seleme plans in store customer infor on Mosks. Driven by Progress Softwere's

Excelet software, the kinds will give custo access to hook availability and location data arounded by the RFID scanning system. "When a continuor comes in they can more accusal lenow whether a book is in stock. Or if a book is ack but not on the shelf, you can find it," says Mark Palmer, vice president of event stream proc essins at Bedford, Mass, -based Progress

While Web core the transition has been worthwhile, he coulions others to be thoroughly ed before moving forward. "As an IT decision-maker, you are making a

aic decision," he says, Once you've commit ted, he warre, "you can't back out." - ROBERT L. MITCHELL

# **Geeks**

Tweezers Could Lead to Quantum Computer

PHYSICISTS

# A STROLL THROUGH THE TECHNOLOGY LANDSCAPE

### Scientists Soun Un Nanotubes

A MFW WAY to customatically modify the steerhas all continuodind carbon countries could extant they electronic respectors and open the nath to name incomercy Carbon coloriers a Sew billioneths, oil a meter, in diameter and a lew morenes inon these nanotobes are arrown the strongest structures known and have unusual alesteral and thereal areas

Researchers of the U.S. Department of Energy's Assessme Maternal I absorbers described this promising method to add defects to carbon runntube unite They're extended in encount the materials for thermoelector nower procession

the use of heat differences to remembe electricity "If you change the electronic structure by addon defects in an ordered way theoretically you ran make man efficient thermoelector materials So we could produce electricity more efficiently from online murdous or any thermal power meneral non "says Amonge chemist Larry Curtiss. Ovation delects by addison molecules to name tubes is challenging because of their extremely small size. So the Amonge team used commuter

carbon dimer - a molecule of two bonded carbons to a somic-walled carbon narrob he The smale wailed remotubes - believed to he the hest candidates for the next sten of men atunana madem ejectropics - recemble a long tube of chain-link fence made of hispations. The Among team says lated a vagety of approaches to attach the carbon dimer to the remotube. They found the easiest and strongest method is to horzontally insert a carbon dimer into two hexagonal bonds, creating two advacent pentagons and hentagens in the chain link

umulation tools to learn how to add a single

After they understood how to add one dimer the researchers began to add dimers in patterns



deners like building blocks and adding them to the taber " Curter year. The recessiber fraud control eterretus modifications

"The "bumpy" tube has carbon dimens added symmetrically around the circumference of

the tube to create a stable hylon-"The "zipper" tube has dimers added hon-Another

Founding Father

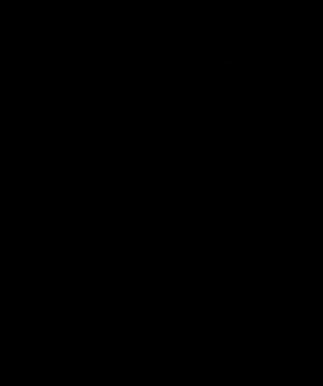
#### rostally along the agai describes in every other revecon, creating alternating single octagons We started building up patterns using the and now of postagood

The "multiple zipper" tube has so axa "anners" enaced by beyance your around a bidu With considered structures, we have now and inconcreted lead are because they moved the elec-

torse recognities in the reachibes. The paper structure particularly appeals to Amongo consorrhers because the storms conings in the openings are just the pight size to bood nanotubes to ultrananocrystaline diamond and combine the properties of both Ultrananocontal ine damand is a form of nanocurbon developed by Argonne that has many of the properties of natural diagnosis - the hastlest known material on earth - and can be deposited on a variety of seriores. Unlike those of natural diamond, the amountes of ultransportestation durnord can be gotimized depending on the application

## DIFFERENCE ENGINES





# **Geeks**Garden

A STROLL THROUGH THE TECHNOLOGY LANDSCAPE

# Scientists Soup Up

A NEW WMY to systematically modify the structure of single-walled carbon nanothors could opposed their electronic properties and open the path to rannelectronics. Carbon cylinders a few billiothis of a meter of carbon cylinders a few billiothis of a meter of carbon and a lew micross long, these nanothors are among the strongest structures known and have unusual electrical and thermal opporties.

Researchers at the U.S. Department of Energy's Argonne National Laboratory developed this promising embed to add defects to carbon reanotable walls. They'm interested in improving the malanais for thermodective power paramator — the use of hear differences to generate electricity.

"If you change the electronic structure by adding defects in an ordered way, theoretically you can make more efficient thermoelectric materials. So we could produce electricity more efficiently from solar, ruictear or any thermal power generation," says Argonne-chemist Larry Curtin Creating defects by adding molecules to nano-

son, says Argonnic charmes Larry curries. Creating defects by adding molecules to nanolubus a challenging because of their extremely small see. So the Argonnisteem used computer simulation looks to learn how to add a single carbon diver – a molecule of two bonded carbons – to a single-welled carbon nanotube.

The single-walled nanotables – ballwed to be the best cardistries for the nest stop of misularities produced in the produced of the produced produced in the produced of the Approximation for the produced of produced of produced of produced of produced produc

After they understood how to add one dimer, the researchers began to add directs in patterns.



"We started building up patterns using the dimers like building blocks and adding them to the tubes," Curtess says. The researchers found several interesting modifications:

The "bumpy" table has carbon dimers added symmetrically around the circumference of the table to create a stable budge.

The "singer" table has dimers added has

zontally along the axial direction to every other brazons, creating alternating single octaons

and parts of peritagons.

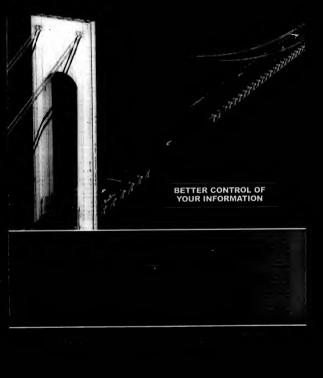
The "multiple alphor" tube has six axial "alphor" spaced by heapon rows around a tube. With simulated structures, we have now and unexpected features because they modify the elec-

ings in the openings are just the light size to bor nanothibes to ultrateriorystalline diarronal and combine the proprietes of both. Ultransnoorystal line diamond is a form of nanocarbon developed by Approne that he many of the proprietes of natural diarrond – the bardest known material or earth – and can the deposited on a whely of surfaces. Unlike those of natural diamond, the

With dissillated structures, we have new and special fidence for small the extension of the structure of the structure procedure of the structure perceivaling appeals to processes extension because the attent special properties of ultranscroptisative dismond can be optimized depending on the application.

DIFFERENCE ENGINES





## I Want to Rule the World - Or Run Away From It

After a busy year a vacation would seem to be in order. So why would our security manager toss her hat into the ring for a more stressful job? By C.J. Kelly

ter tour tour what I do are WHAT I ON THE things I boost The state of the s to the base to the state of the state of place where Leveld sit on the beach cipping comething alcoholic and sweet while my

tors wrightly in the sand and the scorm water of the marin water to lane about my anklas. No will about any MANAGER'S lanton no scholule I my only ha't he memory

the formation This year has been crammed with now. acts of work and activities at home but instead of six ion my feazzled mind the nest it needs. I he specification work and no sponsibility on my head. My problem is that I want to rule

about moved & First Lacovered an appearement at the local university to teach relecommunications security and IT classes I move time. I satisfied our needs with to touch hofern I may od to thu state. Howe teaching and have been a siting for an exposition nus here It finally came - at the bosont time in my life 1 will be working at my state men's security manager in during the day and teaching

several nights a week Second. I threw my hot into the rine for the state's chief information security officer position. I have already been through the first round of interviews, and it went so well that I almost convinced movelf that it was a done deal. But I have been around lone enough to know that it is entirely possible that a senator's nephew is

on the set of the persons to help make the selection hask looking.

At the interview I was select the signal assessions shows how I stood 4 deal with purpose promption 1 and connect them all with convic-

tion and about thy. internations areas monthly wells bross weard manage map with very little badnot money I told the last and an am the case

as of a last happened two pours non when the state legislature referred to approve the funding the send of his man state about nurch not throwall technology As I've explained before in this column no only ortion was to build an ananymou financill and intrusion-detection tools. Using old computers, extra network interface contained remark

no business Labo execunded on some philosophy dissues I said that the most important thing for CISOs to do is to keen their ero on the ball the ball being

I said that the most important thing for CISOs to do is to keep their eve on the hall the hall being total security

not also write. I know that notal construction bearing results as in but it remains the youl nonethe sent that means that - making masters from the physical layer on through the conditioning losses that are next and duta in transit must be newword from unwith similar acress It's that simple - and it's that complicated It's a Asserting na page thility

#### Gamino the System The same we teen to all

mustices I had only one What do you want to harmon in this position?" The CIO nined un immediately leaking me squarely in the eye

21 want supposes who has the technical country back streamed to know what you need to do so comme the state not more and also be the shiften to well accurity to the state less sclators," He explained that his buckenumd was pure IT and he know anough to know what he didn't know about security. It was an honest admission that I admired

That was exactly what I n annual to hour I'm not interested in a high-level state posttion for its political separts. I want to rule the world only to the extent of making supthat security gets done right. The title doesn't impress me. and I would cortainly not maid house in males to in feature But if the title gives me authority to get things done, then

so he at Of course, to be a successful CISO you have to make sure that the right people are in the right positions doing the right things. My higgest fear with this whole deal isn't that I will be cought up in politics or that people might think I lack the it's that I won't be given the authority to here and fire so

I can pull together the right

team of technical security

to an annual property of the same In proceedings of the best

now to fire common Marks eround, initiative education and the drive to do a vitest job and the university management are for him bird to be a see rine is practically appropriated and an ever represent a resistant When I was in the private

contract become that I considered a nink slin any day of the week That purelibility is a burst man tivator for some people Ros man when I was a single mam and sulphy normanipha for and sortery respondence for ofesid of the pink clip because arrangers the plant sup recessor. have wondered if nearly who shows to send for the sources CHARLE IN WHICK HE GOVERN

consists it offers I chose it bethe demonstrate or complete market and it was the only ish Locald find I took onest rooms to learn how the system marks and

the four forms to see that I wouldn't have to suffer with subpar personnel. Working this broken personnel system may not be politically assure. but I believe I am doing the transporer a purviou in domanding excellence and not toloration less than accordable manformance I more my fear shout the CISO inh is that what I have gotten away with in my relatively tiny state

agency would be more visible on the larger stage I would be operation of Soon, the answer will be learned: Fither I will be chosen to rule this little seen ray world and so become a his fish in a little roand or I will not. I will let you know what happens, I

WHAT DO YOU THINK? socials metaper "C J Kells" whose name

and employer main been doguned for obvious margons. Contact her at muckelly whos comer on the discussors in our securily blogs: computerworld.com/

To hed a complete archive of our Security Manager's increals on order to common derworld, costal tecipumal

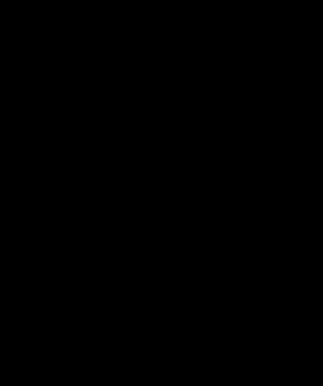
#### SECURITY LOG

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SECURITY LOG

### I Want to Rule the World - Or Run Away From It

After a busy year, a vacation would seem to be in order. So why would our security manager toss her hat into the ring for a more streetful inh? Ru C . I Kelly

what I do --witat 1 00 are things I know that what I need is to take a that wast I need is to take a also when I sould in an the beach sinning comething alcoholic and sweet while my

toes wrigele in the sand and the warm water of the incoming tide lane about my ankles SECURITY No cell phone, no lanton no schedule I wouldo't be respon-

sible for anything. This wear has been crammed with projects at work and activities at home yet instead of siving my

frazzled mind the rest it needs I be ned more work and responsibility on my head. My problem is that I want to rule First, I accepted an appoint-

ment at the local university to teach telecommunications security and IT classes. I used to teach before I moved to this state. I love teaching and have been waiting for an opportuoity here It finally came - at the busiest time in my life. I will be working at my state agency security manager job during the day and teaching removal nights a week

Second I threw my hat into the rise for the state's chief information security officer position. I have already been through the first round of interviews and it went so well that I almost convinced myself that it was a done deal. But I have been around long enough to know that it is entirely possible that a senator's nephew is

in line for the job and I am in tine for the job and I am heln make the selection look

At the intermism I man seked the usual questions about how I would deal with various scenarios. Lan-

caused them all with conviction and clarity. One of the more

Interesting grans tions was how I would handle house security concerns with very little hadget money. I told the interviewers the story of what happened two years ano when the state legislature refused to approve the funding

that would let my state asser-y urchase firewall technology. As I've explained before in this column, my only option was to build open-source firewall and introvion-detection tools 11sine old computers, exerwork interface cards and some time I satisfied our needs with

I also errounded on some philosophical issues. I said that the most important thing for CISOs to do is to keen their eve on the ball the ball being

total security. I know that too but it remains the soal nonetheless and that means that everything matters, from the obsoical laws on through the and faction large Data at part and data in transit must be protected from unauthorized protected from dimeter-rand it's that complicated It's a Assertion responsibility

#### Saming the System

Then it was my turn to ask questions. I had only one: What do you want to harren in this position? The CIO nined un immediately looking me squarely in the eye.

"I want someone who has the technical encurity backeround to know what we need to do to recove the state networks and also has the shiling to sell security to the state lepislators " He explained that his background was pure IT, and he knew enough to know what he didn't know about security. to come on the count of the landson that I admired.

That was expetly what I wanted to bear I'm not interexted in a biob-level state posttion for its political aspects. I want to rule the world only to the extent of making sure that security gets done right The title doesn't impress me. and I would certainly get anid better in private industry

ity to get things done then en he it Of course to be a successful CISO was have to make sure that the right people are in the right positions doing the right things. My biggest fear with this whole deal isn't that I will he caught up in politics or that people might think I lack the noner technical credentials: it's that I won't he given the authority to hire and fire so

I can pull together the right

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managed, it is a very sciCKy Di ness to the soundaries at antiand the drive to do a great job and the urive to up a press p sites for being hired Job sornsitu is assertically supermond unless you commit a crime

When I was in the private when I was in the private a nink slin any day of the week The consibility is a burn motivator for some people Best even when I was a single more and solely responsible for lots of little children. I wasn't afraid of the pink slip because I was an excellent employee. I have wondered if neonle who

choose to work for the covernment do so because of the job encurity it offers. I chose it because I had moved to a small market and it was the only ich Locald find I took great pains to learn how the system works and show found mouse to encouse that I wouldn't have to suffer with

subset personnel Working this broken personnel system may not be politically astate but I believe I am doing the taxpavers a service in demanding excellence and not tolerating less-than-accentable performance I muse my fear about the CISO job is that what I have gotten away with in my palaticula time state agency would be more visible

on the larger stage I would be operation on. Soon the answer will he learned: Either I will be chosen to rule this little security world and so become a bie fish in a little pond, or I will not I will let you know what happens. But if the title gives me author-

#### WHAT DO YOU THINK? This week's iournal is written by a real

and entering the bent bent disquised for solvenus reasons. Contact her at mergleshyll whos own or one the disquisition in our C.J. made all her e-mail but cars) pers

respond to all of it. Check her blog for her question of the flow To find a complete archive of our Security

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ATM a software d nel to a uner's accessed the ntium. The product is available now and starts at abo \$79 per sent annually.

en Text Ungrades horation Suite en Text Corp. has rel n 8.3 of the First Class Col based company. Pricin m of 90 Edwarfin ris at \$40 per oper

IBM Unveils RFID Developer Tool Kits ■ IBM has added three radio frequency identification tool

or network. The RISE (RFID ing them, while the Device ent Kit and Apple ID education at both the busi ss and university levels, acding to the company. All three I kits are available for free

sophisticated uses of text technology. such as knowledge extraction and text data mining, are clearly departmental

CURT A MONASH

## It's Not Too Soon for a Text Technology Strategy

N LAST MONTH'S COLUMN, Lexplained why organizations need architecture strategies for text technology. Search, document finding and media object finding are important in a broad variety of applications across almost any enterprise. So is, or should be, knowledge (re)discovery from text documents. And some enterprises have linguistic technology needs even beyond these two broad categories - for example in speech recognition voice data mining or high-end custom publishing

However text technology is on the whole quite im-------- Managaran full product suite or even a near-term mad map for assembling such a suite. The "his" players in the industry include Autonomy, which had \$61 million to resonue in its latest quarter, and Fast Search & Transfer which had \$22 million Some consensus technological leaders such as fact-extraction stars Attensity and ClearForest. are private communies with

under \$10 million in reve-

nue. And one key product extensive a truly comprehensive ontology management system doesn't seem to be on anybody's product radar at all.

Of course, you can and should have a text technology strategy despite this immaturity. Just be tolerant of specialized departmental solutions, and be prepared to change the whole thing fairly frequently. One helpful approach may be to view this area like business intelligence - perhaps mid-1990s BL If nothing else. many uses of text technology are for RI or analysis - reporting, mining, alerting

But the analogy goes further. Some at this time. Simpler functions, however,



such as search or in the RI analogy, general reporting. may be more announciately implemented enterprise. mide And much as in date warehousing text technolone relies on enecialized detections with information consied from production systems, (Actually, the text case is slicker because a text index is a complete copy of the underlying data.) Given where we stand to: day, here are some principles

For more detail and a bunch of useful links visit www.texttechnologies.com Danley search technology widely across the esternise It's highly imperfect but it's almost certainly worth the cost. Use it to get at everything from e-mail to Microsoft Office files to structured records. In particular, use it in CRM and the other

"relationship management" app categories, where extra context or insight can directly affect your bottom line It's OK for your text data to be distributed across a range of siles. Some of your text is held in RDRMS transaction files for example, in call reports, insurance

claims, warranty databases and the like. A lot is in e-mail archives. Some of what you use is out on the Web. Don't worry. Text indexing systems can mash all that together into one big invertedlist index for searching or data mining interests fact extraction/and mining on als into sees analytics weighter and

ants. Some of your most important hav performance indicators may be the ones that not undered one tentual conmunication at a time. And if your data set is large enough to form a weakle statistical universe, text mining will probably make your predictions more procurery.

Having a preferred test technology tool suite is nice but accept that them self probably be lets of departmental expertises. The technolnew is still immutate and no one suite is close to being best of broad

Released your customer corner other) accesses to evaluit text tech This is more important then many of your namely technical decisions. Mine eventhing you can set out of customer e-mails, call center reports, warranty forms sursen forms blos poetines and anythine else you can find. Then redesien your processes to get oven more onen-onded text data

Integrate your entelopies. I'm nutting this one has because it's both the most con-Curios and the most contemporarial Co. tology and toronomy are scary words to customers and sundons alike Vet these should be faced. A lot can be done, especially on the search side with tools that don't have any particular semantic understanding But the most accurate text technologies rely on closes therough and taxonomies to "understand" meaning. improportion of the exact words used

The resulting ontologies necessarily differ from overniration to overniration and huilding them is a buse part of a sophisticated text technology implementation. So reuse that work! And not just from text silo to text silo. You also have tremendous semantic knowledge in your relational databases, both in your nest metadata structures and to the dirty, synonym-laden underlying data itself.

WANT OUR OPINION? For more columns and links to our archives go to

## Got Questions About Business Technology Optimization?

Computerworld's IT Executive Summit Has the Answers



Business Technology Optimization (BTO) is the holitest category in the IT installing Global 2000 companies use the Previouslan and package of the United States of BTO to automate and optimize IT Earth Business Technology Optimization ensures that every dollar invested in IT, every resource allocated and every application of enforcement or in production is fully adjunct to the understand the survivation of the United States and Control of the United States of the Unit

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#### Business Technology Optimization: Mitigating Risk to the Business Outcomes of IT

7:45am to 8:15am R

10:30am to 11:00am

11:00em to Noon

Registration and Networking Breakfast

Introduction and Overview

Don Tennant, Vice President and Editor in Chief, Computerworld

8:30am to 9:15am Industry Overview

9:15am to 9:45am End User Case Study
9:45am to 10:00am Refreshment and Networking Break

9:45am to 10:00am

Refreshment and Networking Break

10:00am to 10:30am

Transforming the Business Through the Office of the CIO
Cocto Claudo, Chief Information Officer, Mercury

Driving Operational Excellence During Rapid Growth Robert Watson, Vice President of IT Operations, Cinquiar Wireless

Panel Discussion

Moderator: Don Tennant, Vice President and Editor in Chief, Computerworld Panelists: Cecilia Claudio, Chief Information Officer, Mercury; Robert Watson, Vice President of IT Operations: Cinquitar Wireless



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## MANAGEMENT

#### Taming IT at the World Wildlife Fund

CIO Gregory Smith's injection of for-profit rigor into the organizational culture of the nonprofit World Wildlife Fund has boosted the TT group's performance and enhanced its reputation. PAGE 38



Beating Institutional Inertia IT leaders Ruth Hareschar of The Hobart West Group and Harry

Rabenhorst (left) of VW Credit share personal tales of how they overcame organizational resistance to cost-cutting projects. PAGE 40 Bad News Is Not Like Fine Wine

Ignoring problems almost never improves them, says Bart Perkins. He offers a framework for facing bad news in a timely and effective way. PAGE 41

#### How Volkswagen got back on the road to high-performance IT. BY JULIA KING

T TOOK A CRISIS for Volkswagen of America Inc. to learn that strong governance is the only way to keep IT-aligned with the automaker's primary goal of selling more cars than the competition.

The war was 1990, IT costs were sky-

Ine year was 599%. It couses were seyrocketing with an outside outsourcer, so
VWoA cut short is 10 year construct in favor
of strategically insourcing IT to Gedas AG,
an IT services provider then wholly owned by
German parante company Volkswagen AG.
"At that point, there was a thought that we
had no need for governance because Gedas was
part of the VW organization," recalls Alien Piercy,
which behaviors of other paranters of Tiletopic for though orders and owners a manager of Tiletopic for bodown offers and owners a manager of Tiletopic for bodown offers and owners a manager of Tile-

frastructure architecture and operations governance. But it wasn't long before costs again began to climb. Different departments had added new and incompatible software and minicronization and not be the several parts. These applications had to be integrated via a complex so of homograpors no forware interfaces, time. As a result, routine tasks such as calculating amountable sales at month's card became major IT productions fraught with delays and expense. Even worse very highly which. IT evaluable business binaders. Illiar failing to accurately forecast and match the right care models to the first marker. We whole we such a

VWoA officials knew that what was sorely lacking was clear alignment between IT and the business, but change came slowly until Andreas Hestermeyer was hired as CiO in 2004. His mission: to accelerate an IT representation. Two pures later: business and IT at



VWoA are virtually indistinguishable, performing a single set of activities for manufacturing, selling and servicing cars.

The first step was stabilizing the IT infrastructure, which meant taking what Piercy calls 'a much more hands-on role in setting technology standards and designing the operational IT infrastructure."

Piercy assigned each member of his 10-person IT managerial team to one of four architectural "do-

mains" focused on applications, data, infrastructure and services. "Now, everyone on my team has a part of the IT architecture," be says. "They're responsible for setting standards and making sure there is clear Continued on page 36







THE PASTOLIC TIME I OC

\_DAY 28: These slow, inefficient boxes don't have enough power to run my high-end business opps. They can't do anything. Though I guess crashing counts as doing something.

Need sleep. Will try to dream that I om I.T. King of a distant planet that only produces stupefyingly nowerful servers.

DAY 30: I've taken back control, thanks to the IBM System x<sup>to</sup> server with the AMD Opteron" Processor. It has more power and more efficiency than I ever imagined in a standardsbosed senser. The PowerFyerutive\* tool assigns namer as needed for each server. It helps ontimize our nower consumption. Maximize performance. Increase reliability. I can finally sleep in my own bed gogin.

I have taken back control. I am Ned, benevalent I.T. King of this...uh, dato center.



IBM.COM/TAKEBACKCONTROL/X

#### FI FYIRI F SYNCHRONICITY

non turbound area where Wolfrageners of America her onto incomissa area where volkswagen of Arherica.

her referend a broads on role or in decides technological. Statutions and decommon the coverance IT enhances egar of it was sometime architecture. nistery area to the IT infrustructure, you add in costs," he notes cultimate opal is for all of Volesavanen's new atm in over from a fectioning perspective with the gasest core.

in Windsham, Sermeny, in order to avoid costs. This synchronially is a target but not an absolute. "We harmonical or transmission and manufact to be suprimerable a good organization and we main to be approximate an overlain and Volkswapen as a whole has developed a uniform technology order, or LGL to mission secretalogy ingest or one

treed making nerts of the IT infrastructure and to come to se The index takes into consideration the technology standants in use from closely those standards man in the ones in hany, how many deviations of the enterprise standard no cur annually and how many divestors are in confuction We have a technology governance comm that receives everything that comes in from a project standpoint." Piercy says. "There are checkpoints along the way so we can make sure that we're lofgwere standards and not entroducing something lossess into our environment."

No one likes to be governed, but they like the benefits that

governance brings.

#### SHIFTING SKILLS

TROY MALEAN AND A

etant in my world is information and ess," says Andreas Hestermover, C/O at Vote swinger of America. What's not an important are

The same is true for the skills VWoA is looking to here the company Process knowledge and programmen is the troket, says CTO Alien Piercy: IT professionals at VWoA "are not come to been access to Linux servers or all of the to Caco routers." Plercy says. "Instead, they'll be ponsible for developing technology road maps.

We're looking for people with broader general expensence and with magagement-level experience," adds Troy McLean, inader of the business relationship massocrated trace. "Utomately, the more loses have business experience, the best For her process support tears, fearn leader Evelyn Modsays she looks for people "who have a visio

to see the forest through the tiges but also can see how the trees play a part in the overall eccoystem." Process "is all about looking at things hotistically." Modders adds. "But more than anything else, you need to be customer-locused Continue Monte of the

alian mount in itle Correction." These alian makes turn that an new projects is

Basingard way all a state of the state of the ballons of the ballons pane strict service standards, it adopted the filler ferromenal of host practices for the delicery of FF maniework or trest practices for the delivery or tr Codes (which is no longer on nod by VW). I'll our E----achievant analysis and value in El operations. The ne conductor accompality in honor but and const IT in-

fractioneral appearance personnel Then come the band work of documenting the commune's activities and marging there to the tock. noting and the information re-

assigned to morform each one

#### No Drime Donnes

There are no page 15 projects on traditional IT staffers at VWoA Handrage Ef work conharmen Transport of the Atlanting of the Atlanting perfections is combacted deposianticole by anti-basementon titles be stood in book on the for more stratogic tacks of manage ine projects, working with busioccur and the information new lad to perform them, and supporting the measurement of business norformance. This is the work of the commont's ultrale on 35 moreon PT company a unranean to per and a portriding to positivation

All projects are prioritized quarterly by an IT steering commutace composed of business former and IT representatives. The eroup uses a powycł partfolio manacement process which takes into considand benefits IT so hipertural

standards and costs across the entire corporation. and opportunities that may come up as the business. environment shifts There are no prima donnas. A finance project may

he not on hold or in onese behind a project for a new warranty services system or a parts-ordering applicato Comment of the Com as a "bealther tension" among business unit lenders We conduct an annual planning activity with

represent trees from every part of the business. We look at hundreds of projects and prioritize them. says Hestermover, "If you want to be in a room with a lot of tension, that's the place.

No one likes to be told that their project is being slowed down" because another project is more critical to the company as a whole, says True MeLeon He leads the business relationship management group, which acts as a liagion between IT and busi ness. "No one likes to be governed, but they like the

benefits that governance brings," he says. Among those benefits is the ability to quickly innovate and respond to changing business conditions,

and the Debate and Section Commenced project management

One example is Volkswagen's recently announced. the example is volkswagens recently animonic work with Daimiere hrysier Act on a new innivan Voltage recommendate architect production of the vonswapen innivan, which will be to see on the havin in law than two years - a nanoncond in the

the gent the death As counterintuitive to it assemt running and methe direct project planning and principles on ship the towards project planning, and prioritizing ename to tion pains you Mel upp "When you do have to take and a star this bird of the same and an indication below as anickly identify how taking the action will imposed the part of our project plans " he can

MEASURE WHAT COUNTS

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accomplish anything on his own hereman newscare can't work with

out interfaces to other processes, and those interfaces need to be in some with our technical standards." This is where the tensions can really set in, team members say. Not only does each representative need to halance his needs and requirements with those of

his three counterparts, but all of them also have to weigh the value and consequences of what is expedient in the chart term against what is in every with Long to the tracker desired applied while to the sync "We have an emphasis on long-term personation"

says McLean, "But of course, that doesn't make immediate decisions any easier." Still, the project process, as contentious as it may

be at times, is paying off, says Hestermeyer. "Last year, with a multimillion-dollar project budget, we 

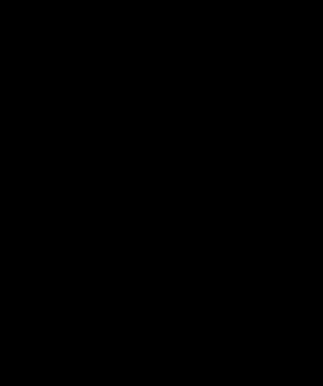
That makes sense to Mark Lutchen, sense portner in the FF effectiveness practice at Pricewaterhouse-Coopers, "Governance is the plue that brings business and IT together," Enteben says, "The ultimate objective of having a rule set is to have much a more efficient spend in IT and to make sure it counts." 9

peninct team is assumbled that com project it and as social technique monaur a business relationship manager and a technical archi the The second section of the second closely with business manager works Joseph Amerika what they would

to do analyzes the stondso-sten tacks involved and necommends supporting technology. The businose relationship manager acts as lielson between more on LIT The technical architect ensures that the project complice with cornell VW technology and process standands. And the project manager, as the overall coordinator, keeps the newest on schedule. These four dis--inliner on appropriated on more

Oraca and at it decided as a

project team and by design can nover accumulate anothing on their own. Hestermeyer notes. "This arounization only works if the team works together," he emphasizes "The business relationthin man war for arample con't





No one likes to be governed. but they like the benefits that covernance brings

Continued from pope 23

Continued from page 33 alienment with Germany." They also make sure that all new projects initiated in the US are implemented in a standard way

a standard way. place strict service standards It adopted the Inforpiace strict service standards, it adopted the infor-mation Technology Infrastructure Library (CTU) former of the second of the second of the transework of best practices for the derivery of 11 Codes todaich is no lamous soused by VIII/A TTII and lines on extensive set of management procedures for achieving quality and when in IT operations. The

procedures are supplier-independent and cover IT inrastructure development and operations Then some the head work of documenting the

MEASURE

WHAT COUNTS

AS I FARED of the recover super

at Volkswegen of America, it's Evelyn

The key to petting an accurate assess-

to processes, not technology. For example,

supporting the acquestion of parts or other

The reason: "It's the measures that draw

pening we have to then assess whether we

are performing the weapon action or measur-

ing the wrong metric. It's all about applying

a key performance undicator for a system

had not system transactions per hour

community activities and manning them to the technology and the information required to perform each one.

No Prime Donnes There are no pure IT projects or traditional IT staffers at VWoA Hands-on IT work, such as programming and testing software applications, is conducted almost entirely by outside contractors.

What has stoud in house are the far more strategic tasks of manage ine projects working with business units to analyze business processes and the information needed to perform them, and supporting the measurement of business per formance. This is the more of the company's ultralean 33-person IT vernance organization, which is harded by Hertermover

All projects are prioritized quarterly by an IT steering compaittee composed of business, finance and IT representatives. The group uses a project portfolio management process, which takes into consideration long-term basiness male

and benefits. IT architectural standards and costs across the entire corporation and opportunities that may come up as the business ment shift-

There are no prima donnas. A finance project may he put on hold or in onene behind a project for a new warranty services system or a parts ordering application. Governance team members describe the result as a "healthy tension" among hysiness unit leaders "We conduct an anoual planning activity with roresentatives from every part of the business. We look at hundreds of projects and prioritize them,"

says Hestermeyer, "If you want to be in a room with a lot of tension that's the place" "No one likes to be told that their project is being slowed down" because another project is more critical to the company as a whole, says Troy McLean. He leads the business relationship management

group, which acts as a ligison between IT and business. "No one likes to be governed, but they like the benefits that governance brings," he says. Among those benefits is the ability to quickly inpoyate and respond to chapeing business conditions

save Lies Dalmis, poperal manager of program and project manager

Open management. work with DaimlerChrysler AC on a new ministra for the Mosth American market Broduction of the Volkswagen minivan which will be based on the next reporting Chrysler and Dodge minimum will best-je in less than the second and brouge ministratio, with

auto industria As counterintuitive as it seems sinceous and mathedical project planning and prioritizing enable the company to exitch more quickly or new opportunities arise, save McLean, "When we do have to take mick action this kind of planning and prioritization quick action, this kind of planning and prioritization

impact the rest of our project plans "he says. Once a project is decided on a mariest term is assembled that men prises a process manager a project prises a process manager, a proje

manager and a technical architect. The process manager works closely with business users to un-Movider's solv in first understand the activities dentend exactly what they need necknowed in the burnters units and then do. to do, analyzes the step-by-step fermine the hest technology to support those tasks involved and recommends cuprocting technology. The buriactuation. After that comes the critical step of developing performance indicators by which ness relationship manager acts as liaison between users and IT. The technical architect ensures that ment she says is creation indicators linked the project complies with overall VW technology and process stapdards. And the project manager, as the overall coordinator, keeps the materials mobile to time to contract account period on cohedule There from die ciplines are represented on every project team and by decism can

the appropriate action." Modders explains. "If never accomplish anything on their we see that the arrangulate action is red hore own Mestermener notes "This organization only works if the team works together," he emphasizes. "The business relationship manager for example can't - HILLA KIME accomplish anything on his own

because processes can't work without interfaces to other processes, and those interfaces need to be in sync with our technical standards." This is where the tensions can really set in team mombers any Not only does each consecratative need to balance his needs and requirements with those of his three counterparts, but all of them also have to

weigh the value and consequences of what is expe dient in the short term prainst what is in eyes with lone-term technology architecture standards. "We have an emphasis on long-term perspective." says McLean, "But of course, that doesn't make immediate decisions any easier."

Still, the project process, as contentious as it may be at times, is paying off, says Hestermeyer, "Last year, with a multimillion-dollar project budget we had less than 5% overspend."

That makes sense to Mark Lutchen, senior partner in the IT effectiveness practice at Pricewaterhouse-Coopers, "Governance is the clae that brines business and IT together," Lutchen says. "The ultimate objective of having a rule set is to have much a more efficient spend in IT and to make sure it counts.">



# **Taming**

At the World Wildlife Fund

CIO Gregory Smith has challenged his nonprofit IT group to operate like a business.

AN TRAVELS MAFFILM

RIOR TO 2001, IT governance was a foreign concept at the World Wildlife Fund (WWF). Business unit leaders decided which IT projects to fund without documenting their requirements

or drawing much input from the IT organization. The IT department was expected to support all new applications that were introduced, and modifications to systems were communicated to the IT staff were informally.

Back then, "there was nothing written down for a system change," says Deepika Bardhan, the WWF's manager of marketing systems, who has been at the nonprofit organization for 12 years. "A business manager would just walk into my office and

ask for one."

In those instances where the IT department was involved in selecting third-party software, the IT team was expected to purchase the lowest-cost

"We worked with whatever funding we had available," says Lynn Parsons, manager of operations systems and a

17-year WWF veteran.

In short, the culture within the IT department at the Washington-based WWF exhibited all of the

based WWF exhibited all of the characteristics of a typical nonprofit organization. But that all changed when Gregory

But that all changed when Gregory Smith came aboard as CIO five years ago. Before joining the WWF, Smith had been a senior IT executive for an-



other nosprofis in Washington, AARP, where he oversaw software development, e-business and a business innelligence repository of information on more than 32 million nembers. WWF nosprofit background, But Smith, who has also worked in 17 management at Sallie Mae and as a senior principal consultant at Pricevaterhoust-Coopers, quickly decided that the entire organization would benefit from adapting

### A Hybrid Model As a starting point, Smith had to determine which type of IT govername structure would much best a

nance structure would work begt at the WWF. He did his homework by hose hobeling with other CIOs and evaluating IT governance models that have been analyzed by Forrester Research Inc., IDC and MITT's Sloan School of Management. In the end, Smith decided upon an IT governance model that combines "IT monarchin" with

"IT disopoly".

According to Peter Weill and Jeanne Ross, co-subors of IT Governance: How Top Performance How Top Performed Manage IT the Top Performed Manage IT the Top Performed Manage IT the Top Performed Manage IT to Claraval Business School Press, 2004. Gits rand Business School Press, 2004. Gits rand Business School Press, 2004. Gits random Service School Pr

For example, using the IT monarchy approach, Smith and other members of the IT organization determine IT infrastructure updates based on growth, usage and other criteris. The infrastructure technologies that the WPF IT department has selected include voice over IP, storage-area networks and e-mail archiving systems. To this case, the owner of these systems is IT, and that's why we make the call," says famile. But when it came down to determining the needs for timekeeping, payrod and human resources information systems a few years ago, the WWF1 Tand business units worked together under an IT disopoly approach. Users under an IT disopoly approach. Users well-defined process requirements, and they were active members of the project rollout teams, says Smith. In this case, the HR department roward the systems, Smith says, "has dished by the systems. Smith says," and that's

#### Convincing the Skeptics

Smith's IT governance model was initially met with skepticism, starting with business leaders who were resistant to change and weren't keen on the new rigors of documenting project requirements in order to obtain approvals and funding. Likewise, his changes to the WWF's IT operating philosophy weren't universally accepted by IT needs who were his occur-

to by 11 progress were successful as to tome to do doing things a certain way.

"I didn't like it," says Parsons. She was used to working under the constraints of a limited budget and selecting the lowest-cost systems, but Smith challenged the IT organization to purchase and install best-of-breed, Tier I types of systems from vendors such as Oracle Corp. Certisian Corp. and SAS

Institute Inc.

To help sell the concept of adopting
Tier I systems early in his tenure at the
WWF, Smith spoke frequently to business executives and IT staffers about
the benefits of enterprise systems over
less-expensive alternatives, including

the financial stability of large, established wendors, better and more timely product upgrades, and the availability of vendor support staff. Those convertories for the product of the stability baseline costs for both the stability baseline to vendor selection. "I sold the need to to vendor selection." I sold the need to look at better solutions as part of my budgeting business case and outlined cost estimates for these vendors upfront." says Soith. "Once the money was allocated and approved by the

and went shopping."

Tim Sivia, the WWF's manager of financial systems, had assumed some of the dwies of the previous CIO before

of the duties of the previous CID before Smith came on board. Sivis anys he was concerned that enterprise systems being adopted, such as Oracle Financials, might not be a good fit for a relatively small isomprofit organization. "We had been using much smaller, of the additionance of the control of the c

has spent two stimes at the WWF since 1985. But he later learned that other nonprofits were using similar enterprise systems. Sivin now says that these systems have given the WWF "a lot of flexibility and stability" in handling its

#### Project Rigor

The IT governance model has also added rigor to the WWF's project management practices. Prior to Smith's arrival, IT projects were conducted and monitored on an ad boc basis, and

project teams didn't follow any repeatable processes, he says. To help gain buy-in for a strong IT from the organization's 20-person IT team. Smith told staffers that he would accept full responsibility for any mistakes that might crop up. Although there were doubers, many IT employees recognized that changes were needed and that more exacting project and change management would benefit

"Greg brought in a process that beiped people realize that better decisions would be made," says Sivia. "There's much more of an audit trail

sions would be made," says Sivia.
"There's much more of an audit trail
with projects now as to who did what,"
adds Bardhan.
Since imposing more formal proj-

Since imposing more formal projcer managemen methodologies, the WWFsTI department has delivered all of its major projects at or below budget and hasn't once overshot its annual T budget. That has won the confidence of the WWFs executive committee, which has increased the orpanization's annual IT spending by an average of 3.6% or each of the past five years, says Smith — years whem many T departments saw cuts in funding.

Smith has driven other changes that have also transformed the WWF IT organization. Prior to his arrival in 2000, the WWF made extensive use of long-term IT contract labor, with some contractors ricking around for as long extent. Now, contract satisging around for as long set out years. Now, contract satisgine ments range from one to tak monthly, and contractors are used, in part, to train full-lines IT workers on specific technologies, such as Hyperion.

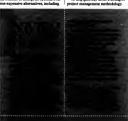
Thus approach has beliefed the WWF IT ratifiers bose their own technical skills and before the whole the contractions are contracted to the contraction of the contraction of the works.

www.ii scauers oose near own technical skills and beef up their business acumen. 'In the past, business leaders didn't come to IT to solve problems," says Anne Topp, the organzation's director of network services. "Now, the business trusts us and comes to us because we can add value to their products."

Crisis Symons, as analyst at Cambridge, Mass-Asset Orrester Research, says IT groups at most nonprofit organizations tend to lage behind their fee-profit constreparts when it comes to adopting IT governance and other lending-edge IT management practices. Smith's approach to managing the WWFs IT activities may be out in front among emporteds. The says Under Smith's governance, the WWFs IT group as ended several years with budget surphases. When the lab huggers, of has declared a

zation's conservation fund.

Though Smith has brought a forprofit mentality to the WWF, he hasn't forgotten where its heart is.



## othing is more important to a project's success than buy-in from lay states holders, so it's particularly exergerating when an IT project aimed at saving the company exerce meats with resistance from IT

Servy IT teaters know how to work through these political bottlemeds. Hereit how two managed to break through organizational hereit to make their projects succeed. That stories - one from a decade ago and one from today -show that challenges may change, but must be admitted to a contract.

#### Sharing The Wealth

About 10 years ago, when she was working as the director of the TT project management office at a multitativisal constituting first, 8xth Harenche discovered that the company want fully leveraging at boying power with Microsoft Croys Instead of optimizing at some the contract of the co

while the business executive under While the business executive understood the merits of IT standardization while their own departments, buying into this idea on a companywise level was homesting that while their owner-lang that Heart West Group in its Bortan Plant West Group in its Bortan West West West West West West Some business bedder didn't want to with literaced frozen they didn't want to pain in the time and effort to find that information, the syst Coherferent that discharaces might reveal a poorly supptimed delai.

poorly negotisted deal.

So Harenchar set out to win the hearts and minds of senior business macutives one at a time.

executives one at a time.
"I would take people out to bunch
every couple of weeks and food them
information about what we were trying to accomplish and how this could
handle them," she are. "It was a little
to the couple of the couple of

## Beating

hit of 'Til show you mine if you show

me yours."

She gradually built relationships
with the business leaders and was able
to ealist their help. "It's a matter of
gaining someone's trust so that they're
willing to dig up the information on

wanting to tigg up the monthination when the wear being spent," may a Platenichus.

She was also careful to avoid missepp. One of her predocessor limited by reed. The predocessor limited by reed. The projects of the projects assignments.

Instead, Harmchar used viljolomscy and persuaderness' met strainers.

control their people's assignments.
Instead, Harenchar used "diplomacy
and persuasiveness" to get senior IT
managers on board before pursuing
the team members she needed.
Harenchar also promised to share
the glory — and the surious. She tok

business leaders that she would give them credit for proposing the concoldation plans and would abare cost savings with their units. "It's amazing low dollars saved will inflowed management," she says. "If the business units get to book the savings to their bottom lines, they really do cooperate and get out of your way." If a business leader didn't cooperate

If a Distance service town to initially, Harenchar showed him how much some of the comparable business units expected to save through the license consolidation and promised that she would help him achieve similar savings. Once she pulled the necessary information together, Harenchar hammered out a deal that saved the company more than 20% of

saved the company more than 20% of its annual Microsoft licensing costs. "I find that you do better with diplossecy in these types of situations," says Harencher. "But you also need to show tenacity to get the job done." Driving Asset Management

To help provide greater visibility into its IT spending, the finance and controller's office of VW Credit Inc. asked Harry Rabenhorst in January 2005 to determine the total cost of ownership for the company's hardware and soft-

for the company's hardware and software. VW Credit's IT department in Libertyville, ILi, is responsible for more than 500 software applications, and Rabenhorst is its financial manager. So to nail down the TCO and make the process repeatable, he and other IT executives decided to create an

neerprise software asset sanagement program. At the time, there used an organizationide approach to tracking

wide approach to tracking software assets, and there warn't reliable data about software despeciation, says Rademanning the second

menagement program
required 's large change in our culture,'
he says, and lackly, his CIO supported
the initiative.
But cultural change is hard. Some IT

But cultural change is hard. Some I and business managers immediately resisted the idea of tracking the company's software assess, partly because of the amount of work that would be required of them. "The thinking was, "We never did this before, so why do it would "a "business assess".

It didn't help that one director did approve of the asset management roject, since he viewed the affort as atrustive. Interestingly, virtually all the copie in IT who resisted the project to reported to that person.

sopie in IT who resisted the project so reported to that person. To get the company on board, Ramhorst and his seam took a waristy o persaches, ranging from "extremely ion" to "extremely direct," he says.

steef to "extremely direct," he says. The approach taken varied on a case by-case bests, any Rabembers, bot creating and maintaining open liters of communication with people was critical, and through good communication, we were often able to gather induction, we were often able to gather induction. When that didn't work, Rabemborst callisted the sid of sendor monogeness.

The program was inching forward until it suffered a debilinating blow when the CIO left the company in June Losing a wital sponsor for the project was "a major hit," Rabenhorst says. VW Credit's service center director,

VW Credit's service coster director, who replaced the CIO on a lanterim be sit, had more experience in sales than in IT, and his initial response to the asset management effort was "lukewarm at best," says Rubenhorni. Noortheless, Rubenhorst persevered in educating him on the benefits, and over time, the executive bought into the concept.

executive bought into the concept.

That helped move the program forward spain. For instance, Rabenhorst had been prodding one IT manager for over a mosth to provide information about some of his assets. The manager continued to reast until the instrim CIO gave him orders to fork over the data. Rabenhorst received the information has needed within few hours.

Harry Rahania

It took about a year, but the program is now up and running. Information about the company's software smets is stored in a Microsoft Access database and from now on will be updated by

Rabenhorst sensianusally.

Rabenhorst believes in the besselfts of effective name management, but it sook some time to convey that message to other people in the company. We took a lot of management go show that what we work obige had value and would continue to; he saws it is soon in the continue to; he saws it is soon in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he saws it is sawn in the continue to; he can be continued to the contin

#### DART BEDVING

## **Bad News Is Not** Like Fine Wine

AD NEWS comes in many forms: a failed Sarbanes-Oyley audit project delays 26.5 million veterans' records compromised hugs in new technology products. Some organizations ignore a problem and pretend it doesn't eviet until it turns into a major cricis Unfortunately yery few problems just disappear

Handling bad news requires enough information to understand the problem and develop possible solutions, Years ago, Col. John Bond developed the OODA (observation orientation decision action) from to help new fighter pilots win doeselver. The OODA onceess can also be applied to handling IT emblems # Observation: Gather the

- debt dete Orientation: Analyze the data, delineate the critical data, detinione unnec occurs information # Decision: Develop pote

tial solutions and analyze the trade-offs. Make sure you have enough information to accu ly compare the costs, benefits and likelihood of success associated with each moreous solution. Decide which heat fire. your organization's requirements Action Once you reach a decision.

move forward quickly. Organizations that lack sufficient

confidence or experience may spend too much time in observation and orientstion. They are often rejuctant to make a decision until they have sathered incedinate amounts of data. This delay prevents timely decisions. Meanwhile, the unresolved problem continues, ramifications grow, and often the situation nes even more difficult

There are other factors that affect an organization's ability to react to bad news before problems become crises. and there are other ways to deal with problems as well. In addition to using the OODA approach, here are some other recommendations that may below Our the problem. When the lors is weers, admit it and address it Johnson & Johnson's handling of the Tidenol tampering scandal in 1982 remains the gold standard The company mubblely acknowledged the tampering and recalled more than

It million bottles of Telepol (costing it more than \$100 million). It quickly developed colid context and tamoer-resistant packaging. Ds communication and acrions won it favorable press coverage. A year later, John son & Johnson had resained the public's trust, and Tylenol had recovered most of its lost market share

Rely on facts, not emotions. Get the facts ASAP Without good data it's difficult to determine potential business impact or develop effective solutions. Objective. fact-based discussions are much more productive than those based on opinions. Focusing on facts also helps reduce the emotional and political aspects of a

problem Encourage creative solutions. In 1970, the Apollo 13 moon mission was crippled by an explosion in an oxygen tank. Working with Mission Control, the crew used hoses, cardboard, plastic bags and duct tape to jury-rig the command module's lithium hydroxide supply. The innovative solution provided the landing module with the power, water and oxygen necessary for the crew's survival.

Focus on the solution. Undertake enough

wais of problems to get the facts but Ann't let your response turn into an exercise in finding and punishing the guilty. Focusing on fault encourages backstabbing and destroys team morale. In contrast, developing solutions unites and ensuring to recop-

Listen in all levels. In a crisis, companies. often cely solely on senior staff largely ignoring input from other team men hers Senior staffers (excluding Differt's hous) consens the house more experience to draw from and brine valuable perspective. They have experienced other crises (both similar and different) and have seen the successes and failures that reculted from starious approaches. Other team members are often closer to the details however and can offer creative ideas for solving the problem. To develop the best solution, leverage every knowladea hase wailable Remove of cultural differences. This is

nerticularly important in cultures that defer to one and position, sensorially in offshore efforts. At one industry-leading company a junior-level Asian program. mer watched silently as a senior American programmer presented a flawed software design. The junior programmer spoke up months later, when the flaws crossed costly program errors. When asked about his previous silence, he explained. "In my country, a junior programmer must never question a senior programmer."

Act quickly but not houtly. Take time to eather sufficient data, but don't wait to act until the problem is discovered by your competitors, the press, regulatory agencies or your customers. The wider the exposure, the greater the damage. Every organization regularly encoun ters had news. Some stash it away and try to forget about it. Successful organizations use all appropriate resources to address problems effectively and in a timely manner. They know that unlike

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### **FVFNTS**

#### IT I parlorehin

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#### Rusiness Process Management

Sept. 19-20, Reston, Va. James: December 1990 ---technology tracks. Pursoess tooms include excelding business percess in. riction that role of chance manage et in business transformation and collaboration concess improvement Technology Ingins include business correct surbitarities modules the role of humaness rules in enterprise architecture and leveraging BPM in a noncommercial environment.

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wars, software-defined radio, aging prevention research, patent "trols and how they hinder innovation, highconformance battaries in transform tion and PCs for Holly

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or: Gartner Inc. Gartner's Symposium/Thipo 2006 includes tracks on application oreation, integration and infrastructure ness intelligence, business process management and information ment: business application strategies; business decision-maker actives on (T; client computing ne architecture and eme



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#### Continued from page 1 Philadelphia

---settlement" with Ornal Neff declined to elaborar - At the of continues that the city is seeking emine the doesn't want to companying an

its position But she said that the project could be modified or replaced by "a workable solution " In both cases Neff and the site senate to sentent its importment \*and deliver a its investment and getiver a system within 18 months \*

An Oracla mokermoman said only that the implementation is "still in progress, and Oracle believes that the work performed to date conforms with the current amount of She added that the vendor will deliner on its obligations to

complete the project City Controller Alan Butko. uity sold his office is periaming what happened on Project for him to speculate on what went wrong Asked shout the talks with Oracle, Butkovitz said. "Anything the city administration does to make sure there's a workable product for its money is com able, and we wouldn't get in

#### the way of that." Handling Complexity

One Project Ocean critic. former Philadelphia Water Commissioner Kumar Kishinchand, said he never felt that the project would work when it was being discussed by city officials in 2002 and 2003

"One reason is that they picked a company that had never done a water billing system," he said, "Oracle had only done viable customer service systems with a small portion for billing purposes. Municipal billing systems tend to be

emendously complex." The off-the-shelf components of such systems have to be heavily modified, noted Kishinchand, who left the watur commissioner's job in 2004 often holding is for 17 years He also around that problems moulted because the city's waresulted because the city's wa posed to be the principal user of the billion contem, worst's out in charge of the project. "Most of what want wrong had to do of what were wrong had to d than snything else," Kishin-

chand said accusing city of ficials of "matting all their even in one backet without consul in the water department." Neff said that her office was implest in chaosing Oscole's F. Rusiness Suite FRP software for an array of city upor including human resources. Most large openizations start

with HR because those sys-

tems are "fairly well defined."



Continuity was a probl em and we should have better defined business processes. Problems came up be tween (Oracle) and business neanle

she said. But Philadelphia's finance department decided to make water billing the first on nlication according to Neff

She described the Project Once outline or form out plicated with year unique features " But the added "hindsight is 20/20 and FRP is difficult answers

Most anyway. Neff was the bears turnous among project managers and the department heads who were observationing the rollout "Continuity was a problem

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defined business processes she said "Dooblems come up ber said. Fromeins came of business people. As we put it it was a project that 'washed ashore' " for IT to handle Innice Davis the first city finance director involved in overseeing Project Ocean Jeff Philadelphia to become chief financial officer of Atlanta's management occurred and in Aumer 2004 Reached in Ar.

lance lost week Davis denied

Kishinchand's claims that or-

contrational namer erabs were nom of the nations "There were part of the project. There w build an empire only to upgrade the system," she said A wear ann Nieff's off---A year ago, Nett's oence was appointed to analyze the w project. The analysis led to the halting of the annious last fall and the related suspension of and the retailed suspension of

come Omela amelanas Neff who was a Commi world Premier 100 FT Leaders honoree this year said her importing departure has nothing to do with the Project Ocean problems. "Do year orough of all the improvement and successful projects that have been instituted under my

torre occidentations and a

en corrected and is being foli

per be used on Project Oce

#### Consultant's Hours, Credentials Questioned by Philadelphia Controller

Forecasts, the president of con-mittee fee Acutech Inc., couldn't be ed for comment last week, nor was read \$150 an hour and billed the city for an average of more the 82 hours per week from Decembe 2001 to March 2002, when she w

ally and forces trial in Nov

ed She was a me II on

Ms. Forworth had the necessary skills

IT projects, according to Netl She acknowledged that produces for vertifein contractor ted was legitimate.
In a written response to Bulkovitz
Muli said that reather site nor other in the past, But that owner

rius in the Mayor's Office of retion Services (MOIS) we and in histon Forwards, "As Mr. Femorth was hired, the city had -

lated to do," Hell said. T do not fo

MAYT MANNE PT Neither I nor my depart

Jeanette Foxworth. As far as I know, at the time Ms. Foxworth was hered, the city had no standard practice requiring background checks for consultants.

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### VA's Testimony

AMES NICHOLSON BLEW IT. And just how badly the Veterans Affairs secretary blew it was obvious last week, when yet another computer containing names and personal data of thousands of veterans was reported missing (see story, page 18). This time, it disappeared from an outside contractor's office and there wasn't a thing the VA could have done about it. But never mind the facts: Almost instantly politicians of all strines were again lamenting the threat to yets and calling for Nicholson's head on a platter.

What did Nicholson do wrong? Nothing, It's what he said - or rather what he failed to say - that will likely cost him his joh

He moverill have a chance to salvage the situa ation, though — if not for himself, then for those who will still be responsible for 1T equatity at the VA after Nicholson has been kicked to the curb To do that, be'll have to go in front of a succesrion of congruencional committees and ray come-

thing he should have said months ago Comething like this

\*At the end of July one of our subcontractors discovered that a PC containing information on se manu ar 28 000 sustarans was missing it wasn't stolen by a burglar from the home of an employee who took it home without permission, or by a smach and grah third from comeone's car & disappeared from an office in a building with security mustde curveillance cameras and card keys. It may not even be stolen just misplaced. We don't know. For now, we're assuming the worst,

"That PC was entirely under the control of the subcontractor, Unisys, There's nothing anyone at the VA could have done to prevent its loss. But it

hannened on my watch I'm responsible "I wasn't happy to hear that veterans' personal information once again may be at risk. I know that none of you are happy about it, either.

Some of you have demanded my resignation. Again. But I am here today to tell you that as long as I am VA secretary. you'll keep hearing about security

"You'll hear about them because we'll continue to tighten our security. We'll continue to improve our reporting of security incidents, and we'll continue to move faster each time we find a problem.

"As our security improves, we'll discover more incidents, some old. some new We'll report them faster and in more detail.

"And the number of incidents you hear about mill charaches th will continue to skyrocket until we finally

get our security problems under control. That will require changing both the technology and the culture of the VA when it comes to securing data and reporting security incidents.

te will take wear Now you have a choice You can demand better security for our veterans' personal information. I have you do But if you do that wou'll contime to hear reports of data security problems at

the VA for a long time to come \*Or you can demand a ston to them. You can fire me and tell my successor that you never want to one another news story about a data encurity incident at the VA

"In that case, you'll be sending a strong message to the VA and to every other federal agency: Do not look for security problems. Bury them when they're discovered. Do whatever it takes to hide the incidents. But never admit that security has been breached

"You will send the mesesses that you don't care whether data is safe - you just don't want to bear had news. "Many federal departments may

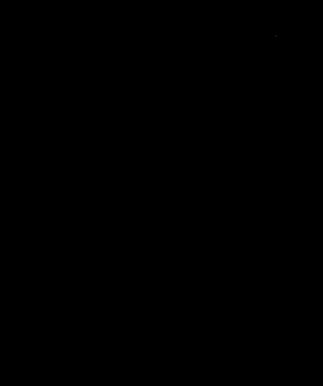
be willing to lie to you about that bad news, I and the VA will not. "I made a serious mistake in recent months. I failed to explain to you that the news you hear about our security issues will get worse as our security actually gets better.

"So let me make this clear to you today: We are curing our security problems. But as long as we are, there will be bad news - and I will deliver it to you.

"The day I don't is the day you'll deserve my resignation."

#### Let's Try This One More Time

This common officer amount was to contact IT for als reacion from an internet trebation of ency pagers. "I got a panicked call directly from



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## VA's Testimony

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